

**ILLINOIS
NATURAL HISTORY
SURVEY**

**Long-Term Illinois River Fish Population
Monitoring Program**

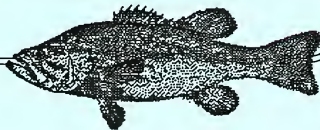
Annual Report, F-101-R2

Center for Aquatic Ecology

Richard E. Sparks and K. Douglas Blodgett

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1990-1991 Annual Progress Report

Long-Term Illinois River Fish Population Monitoring Program

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DISCLAIMER

The findings, conclusions, and views expressed herein are those of the researchers and should not be considered as the official position of the United States Fish and Wildlife Service or the Illinois Department of Conservation.

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Background

The electrofishing program described in this report adds to a data set begun in 1956 when Dr. William C. Starrett of the Illinois Natural History Survey initiated an annual electrofishing survey of the Illinois River. The survey was supported from a variety of sources until 1985 when funding lapsed. Field work resumed in the fall of 1989 with support from the federal program in sport fish restoration and the Illinois Department of Conservation, as a 5-year Survey and Investigation that extends until 1994.

Organization and Contents of Report

This report is organized according to the 6 jobs described in the Annual Work Plan for Segment 2, and covers the period 1 April 1990 to 31 March 1991. Although a comprehensive analysis of the entire 40-year data set awaits completion of the 5-year investigation in 1994, selected findings are highlighted in each year's annual report. This past year's major findings are reported as Job 6, Presentation of Results, and are briefly summarized below.

The numbers, lengths, and weights of each species of fish caught in 1990 are presented by sampling station in Appendix A. The collections are presented in order by sampling date, and are cross-indexed by location (see the index at the beginning of Appendix A). The Appendix is 76 pages long, and was not attached to all copies of the annual report to save copying and mailing expenses. Copies are available from the Principal Investigator, Dr. Richard E. Sparks, Illinois Natural History Survey; Mr. William Bertrand, Project Officer, Illinois Department of Conservation; and Mr. Jim Allen, Head of the Programs Section, Illinois Department of Conservation. Data are also available for IBM PCs on floppy disks in RBase for DOS.

Summary of Major Findings in 1990

The analysis this year focused on the upper Illinois River where the fish populations have been affected adversely in the past by waste discharges from the Chicago-Joliet metropolitan area, but where game fish populations seem to be recovering as waste treatment improves.

The condition of largemouth bass, smallmouth bass, white bass, and carp, as measured by relative weight, W_r , improved between 1982 and 1985 in the upper Illinois River, but declined by 1989. W_r of the three basses were all above 1.0 by 1985. In contrast, the W_r of channel catfish peaked earlier, at slightly better than 1.0 in 1983, and has since declined to just above 0.8.

Another indicator of a long-term improvement is the development of a sport fishery for sauger in the upper Illinois River. Sauger first appeared in substantial numbers in our catch in 1979 in the upper river, confirming that return of the sauger is a relatively recent event that appears to be associated with water quality improvements made during the decade of the 1970's, starting with the Clean Water Act of 1972.

Although the increased catch of sauger and the improvement in W_r of 4 of 5 species over the last 10 years are encouraging, the decline in W_r values between 1985 and 1989, and the further decline in 1990, are worrisome, particularly since 2 other agencies have obtained similar findings. The Illinois Department of Conservation has noted the same decline in several species of game fish in their electrofishing collections from the river in 1989 and 1990, and Southern Illinois University reports a decline in the W_r of sauger (personal communication, Dr. Roy Heidinger, Professor of Fisheries, Department of Zoology, Southern Illinois University, Carbondale, Illinois, 9 April 1991).

Representatives from all three agencies met in Springfield on 9 April 1991, with representatives from the Illinois Environmental Protection Agency and the Metropolitan

Water Reclamation District of Greater Chicago to discuss possible causes of this decline and to coordinate a more intensive sampling of water quality in 1991. Thus these data sets, including the set from this project, F-101, have demonstrated their utility by providing early warning of a potential problem. It may be possible to identify the cause and take corrective action before the condition of the fish populations in the upper Illinois River revert to the lows that were characteristic of the 1960s.

Job 1. Preparation of Equipment

All old equipment was checked and refurbished as needed. A second timer was added to the control console so that the driver does not have to look to the side at the switchbox to see how long the generator has been running. The old Homelite generator was tuned up and used throughout this sampling season. We measured the voltage to each electrode at the beginning and end of each sampling run to ensure that the output was consistent.

The new MultiQuip generator was modified to serve as an emergency backup, but did not have to be used this year. Mr. K. Douglas Blodgett constructed a resistor box to reduce the voltage of the MultiQuip to the same level as the old Homelite. He also added safety features recommended in the electrofishing school taught by the U.S. Fish and Wildlife Service.

Job 2. Training Staff

Mr. Phillip Moy, Mr. Eric Hopps, and Ms. Ruth Sparks read the procedures manual and practiced with the equipment in the Illinois River at Havana, under the supervision of Dr. Richard E. Sparks and Mr. K. Douglas Blodgett. All staff had previously taken a Red Cross First Aid and CPR course.

Job 3. 1990 Electrofishing

Water levels in the Illinois River were high much of the summer (Figure 1). By 7 September, water levels in the upper river were close to the mean low river stage, so we began electrofishing that part of the river first. All 26 stations on the Illinois River and the one station on the Mississippi at Brickhouse Slough were sampled by 28 September (Figure 2 and Table 1).

Small fish which could not be positively identified in the field were preserved in formalin and brought back to the Laboratory. They were transferred to alcohol and identified during the winter.

Several interesting observations were made during the course of the field work. Yellow perch were extremely rare in collections made years ago, but this year 2 were captured at Ballard Island Chute. Most of the goldfish had the "wild type" bronze coloration, rather than the white, black, or bright orange characteristic of the "dime store" varieties. The bright colors are probably rapidly selected out of the population now by predators, whereas the predators were virtually absent from the upper river 15 years ago. We saw some "knothead" carp, but the incidence is much lower than formerly. Erosion of fins and barbels on the ventral side of bottom-dwelling fishes is still a problem, indicating some sort of stressor associated with the sediment. An anomalous collection was made at Hennepin Island Chute, where only 2 fish were taken in 0.33 hours of electrofishing. The equipment seemed to be working properly, and the abundance of fish in collections made at the stations above and below Hennepin were about as expected. The generator labored when the electrodes were switched on (as it is supposed to under demand) and the voltages to each electrode were in the normal range. It is possible that fish had abandoned the chute because of some noxious material. No dead fish were observed on the shoreline.

Figure 1. Water surface elevation of the Illinois River at Havana in 1990. Horizontal lines indicate pool stage and flood stage. At pool stage, the water level is maintained at a minimum depth for commercial boat traffic by the navigation dam at La Grange. At flood stage, the river overtops its banks and begins to fill the floodplain. Electrofishing was conducted during the period indicated by the horizontal bar. It is unlikely that the water levels fluctuated as rapidly in January as indicated by the graph. It is more likely that there were problems in reading the gage or there were reporting errors. We were still trying to confirm the January readings with the U.S. Army Corps of Engineers at the time this report was being written.

Fig. 1 Illinois River Water Surface Elevation at Havana as reported by the U.S. Army Corps of Engineers

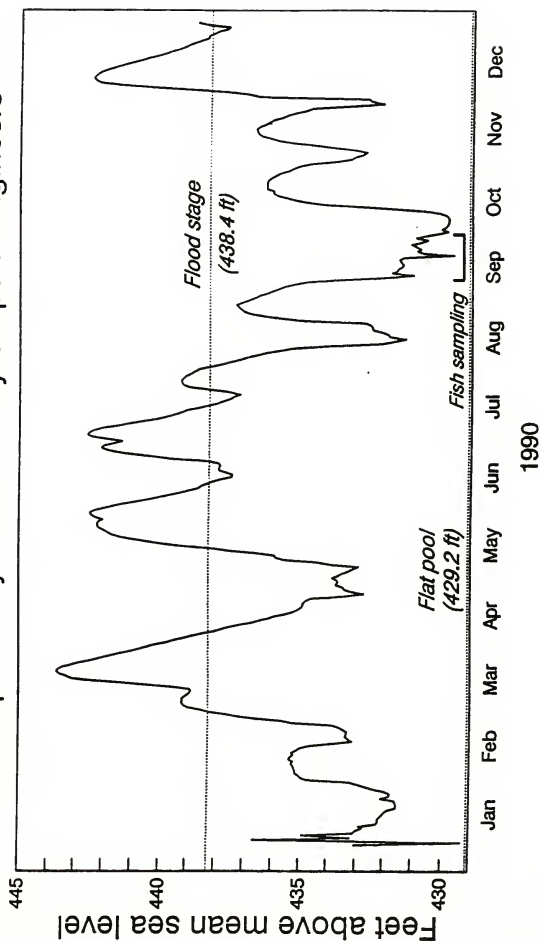


Figure 2. Location of the 27 sampling stations along the Illinois Waterway. Station 27 is in the Mississippi River, just below the mouth of the Illinois River. Stations 1 and 2 are in the Des Plaines River, which joins with the Kankakee to form the Illinois River. In this report, we define the upper reach of the Illinois Waterway as beginning at River Mile 190, just upstream of Peoria. Stations 1 through 12 are in the Upper Illinois Waterway.

Fig. 2

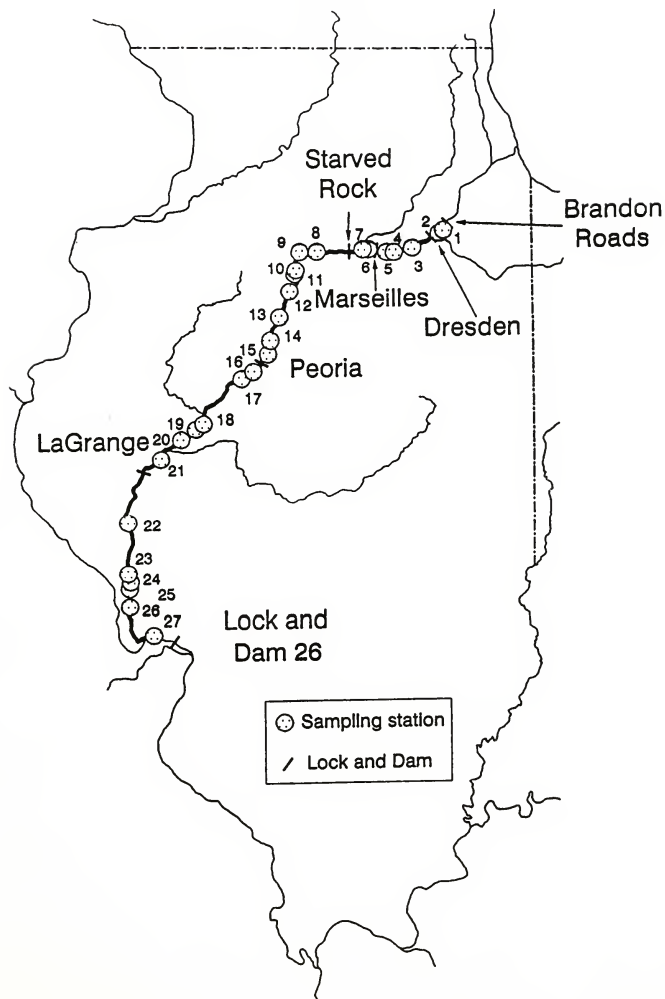


Table 1

Collection number	Date	Pool	Site	River mile lower	River mile upper	Elapsed time (hrs)	Velocity (ft/sec)	Water temperature (degrees C)	DO (mg/l)	Secchi (inches)	Conducti- vity (umhos)
1990-01	07-Sep	3	Treats Island	279.4	280.0	1:00	11:55	25.5	7.73	25.2	595
1990-02	07-Sep	3	Mouth of Osage River	276.8	277.8	1:00	13:30	27.2	9.40	24.0	600
1990-03	08-Sep	4	Wapecan Island	260.2	261.1	1:00	8:54	25.5	7.85	22.6	670
1990-04	08-Sep	4	Johnson Island	249.6	249.8	0:47	12:38	27.0	8.70	19.7	630
1990-05	08-Sep	4	Ballards Island	247.7	248.2	0:55	14:45	27.0	10.50	11.8	640
1990-06	10-Sep	5	Bulls Island Bend	241.1	241.6	0:32	15:00	28.5	9.70	20.1	650
1990-07	10-Sep	5	Bulls Island	240.2	240.9	0:67	16:40	28.0	10.30	18.1	650
1990-08	11-Sep	6	Clark Island	214.9	215.6	0:37	8:59	26.5	8.04	14.2	680
1990-09	11-Sep	6	Hennipen Island	207.5	208.1	0:30	10:30	26.5	7.80	16.9	650
1990-10	11-Sep	6	Upper Twin Sisters	203.0	203.5	0:46	11:50	27.0	8.10	15.0	670
1990-11	11-Sep	6	Lower Twin Sisters	202.6	203.2	0:47	13:05	27.0	8.10	15.0	670
1990-12	11-Sep	6	Henry Island	193.3	194.5	0:51	16:31	27.0	12.30	11.8	680
1990-13	11-Sep	6	Chitticothe Island	180.1	181.0	0:65	18:55	27.0	8.20	9.8	690
1990-14	12-Sep	6	Lower Peoria Lake	163.0	163.5	0:57	12:45	27.0	13.00	9.8	650
1990-15	12-Sep	6	Upper Peoria Lake	170.8	170.9	0:31	14:50	29.5	19.90	7.9	700
1990-16	13-Sep	7	Pekin	154.5	154.9	0:53	8:38	26.5	6.90	8.7	700
1990-17	13-Sep	7	Turkey Island	148.0	148.4	0:47	10:15	27.0	6.80	8.7	700
1990-18	13-Sep	7	Upper Bath Chute	112.8	113.2	0:62	13:55	28.0	5.90	7.9	700
1990-19	13-Sep	7	Lower Bath Chute	107.0	107.3	0:57	16:02	27.0	5.80	7.9	700
1990-20	13-Sep	7	Sugar Creek Island	95.7	96.3	0:61	18:25	27.0	5.40	7.1	700
1990-21	14-Sep	7	Grape-Bar Islands	85.7	87.0	0:73	9:35	26.0	5.70	7.5	620
1990-22	14-Sep	8	Big Blue Island	57.8	59.0	0:87	13:15	26.0	5.70	7.1	700
1990-23	27-Sep	8	Crater-Willow Islands	29.2	30.8	0:50	11:40	18.5	7.50	11.0	600
1990-24	27-Sep	8	Hurricane Island	27.0	27.9	0:97	13:42	20.0	9.10	11.4	590
1990-25	27-Sep	8	Mortland Island	18.3	18.8	1:00	17:20	20.0	9.40	10.6	600
1990-26 ^a	28-Sep	26	Britchouse Slough	207.2	209.0	1:00	9:45	20.5	10.30	16.9	375
1990-27	28-Sep	8	Dark Chute	24.4	25.5	1:04	15:39	21.5	10.30	10.4	600

^a Collection 1990-26 was from Britchouse Slough on the Mississippi River

Another discouraging observation is the degree of sedimentation. It was impossible to fish the exact locations sampled in the past at Ballard Island Chute and Detweiller Marina because the boat became stranded. These 2 stations will have to be abandoned and alternative sites picked for 1991. A third station, Turkey Island Chute, changed from a deep to a shallow chute approximately 15 years ago, when it apparently was filled with sandy dredge spoil. The on-site dredge spoil inspection teams will probably avert another Turkey Island Chute. However, gradual filling of some of the remaining side channels and backwaters will continue unless remedial action, such as proposed for a few locations under the Environmental Management Program, is undertaken. Hurricane and Diamond Island chutes in the lower Illinois River remain deep and generally have good fish populations year to year. These chutes have a fairly uniform width and moderate current velocity, and appear to be self-scouring. The same design might be self-maintaining if copied in other parts of the river.

Jobs 4 and 5. Database

Mr. Robert Illyes has made considerable progress at the Survey's main office in Champaign on merging the historical data sets and making them available in an RBase format that will run on an IBM PC. This has not been an easy task because the coding differs markedly between the Starrett-Sparks data set and the set collected by Kenneth Lubinski. During the past 15 years the mainframe computers and the software used for data analysis at Champaign have changed at least twice, adding further incompatibilities and complications.

The historical data are being converted to coding and formats that are consistent with this project (F-101-R), which began in 1989.

Mr. Illyes is developing checking routines that will find obvious errors, such as a 1-inch fish that is listed as weighing 2 pounds, but it may still be necessary to complete one more round of verification by laboriously checking printouts against the original

field data sheets.

Job 6. Presentation of Results

Results from this project were included in a talk presented at the 29th annual meeting of the Illinois Chapter of the American Fisheries Society in Urbana, Illinois on 6 March 1991, and were presented at a meeting of fishery biologists and environmental engineers concerned with the relationships between water quality and the status of fish populations in the Upper Illinois Waterway in Springfield on 9 April 1991. The general increase in relative weight of 5 species of fish, including 4 sport species, from 1982 to 1985 was good news for the fishery managers and water quality managers, as was the appearance of substantial numbers of sauger in the catch, starting in 1979. However, recent declines in relative weights of the same species, including sauger, prompted the Illinois Department of Conservation (IDOC) to call the meeting in Springfield, which was attended by Dr. Sparks and Mr. K. Douglas Blodgett from the Illinois Natural History Survey, and by representatives from the Illinois Environmental Protection Agency, the Cooperative Fisheries Unit at Southern Illinois University, and the Metropolitan Water Reclamation District of Greater Chicago. The information on relative weights and sauger catch that was presented at these meetings is summarized below and in the accompanying figures.

Relative Weight, W_r . The standard length-weight relationships used for comparison with the values from the Upper Illinois River were taken from sources cited in Murphy, Willis and Springer (1991) and listed in their Table 1: Stephen (1978) for carp, Anderson (1980) for channel catfish and smallmouth bass, Brown and Murphy (in press) for white bass, and Wege and Anderson (1978) for largemouth bass.

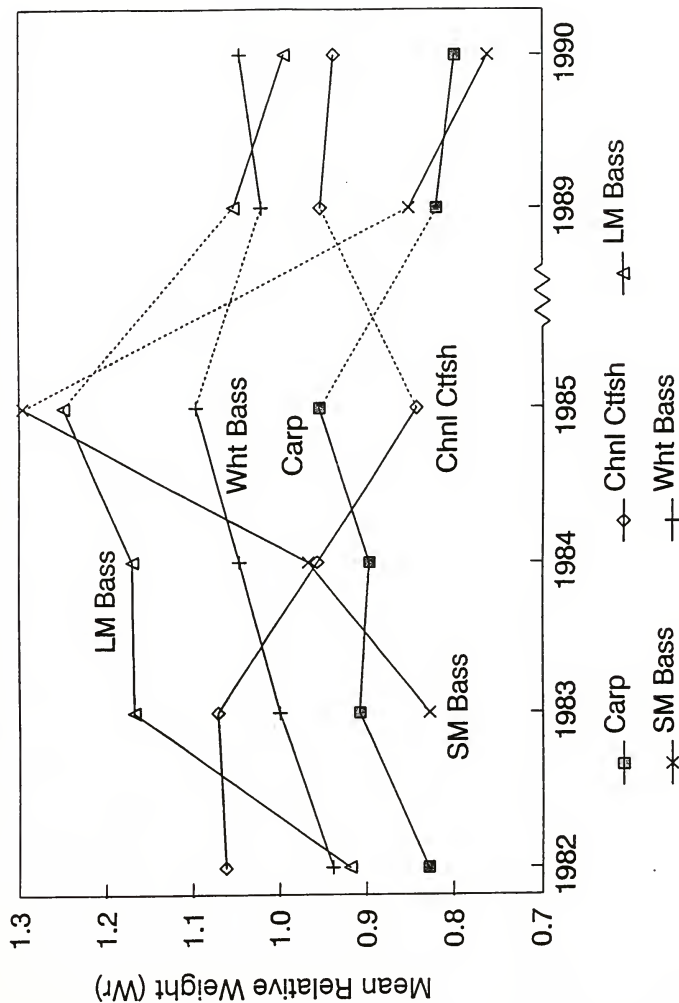
The relative weights of white bass, smallmouth bass, and largemouth bass increased to values greater than 1.0 between 1982 and 1985 (Figure 3). The greatest increase occurred in smallmouth bass, whose W_r values went from approximately 0.8 in 1983 to 1.3 in 1985. No electrofishing was done from 1986 through 1988, so we do not know what happened to the W_r values in this interval. However, the values for all three species were lower in 1989-1990 than in 1985. Changes in weight-length relationships, including W_r , can reflect changes in the food supply, water quality, habitat quality, or in the length range of the fish. One might speculate that these three species may show the same pattern because they have similar feeding habits: they consume invertebrates when young and graduate to larger prey, primarily fish, as adults.

The hypothesis that the quality or abundance of forage for adult sport fish might explain the common downward trend does not explain why the common carp, a bottom-feeding omnivore that is capable of consuming detritus, shows the same pattern. Also, the channel catfish shows a unique pattern: its W_r value peaked in 1983, declined through 1985, and is at an intermediate level in 1989-1990. The channel catfish is an omnivore that consumes benthic macroinvertebrates, but will also take small fish. Without information on populations of forage organisms, including benthic macroinvertebrates, it is virtually impossible to test the food deficiency hypothesis.

There is a suggestive negative correlation between W_r values and ammonia concentrations in the Upper Illinois River (personal communication, 9 April 1991, Mr. William Bertrand, Streams Program Administrator, Illinois Department of Conservation). The un-ionized form of ammonia is toxic to fish and other aquatic animals. The concentration of municipalities and industries in the Chicago-Joliet discharge ammonia, as well as nitrogen-containing organic matter that accumulates in sediment deposits and

Figure 3. Relative weight, W_r , of common carp, channel catfish, white bass, smallmouth bass, and largemouth bass collected from the upper Illinois Waterway, 1982-1990. No electrofishing was conducted from 1986 through 1988.

Fig. 3 Fish collected from the Upper Illinois Waterway (RM 190+) during INHS electrofishing surveys



could form ammonia under anaerobic conditions. Again, more information is needed to determine whether this correlation is coincidental or causal. Virtually any pollutant that occurs in sewage or industrial effluent will occur in higher concentrations in the upper river, near the sources, than farther downstream, so ammonia is only one suspect.

In order to determine whether the slight declines we observed in W_r values between 1989 and 1990 might be attributable to different length ranges of fish captured in the two years, the weight-length values were plotted and visually examined (Figures 4-8). With the exception of smallmouth bass, the lengths in the two years overlap and are in the same range. Too few smallmouth bass were captured in the Upper River in 1990 to make a valid comparison of W_r values (Figure 8).

Sauger. Although the sampling design of the long-term electrofishing program is biased against sauger and walleye (no tailwaters are sampled and no night electrofishing is done), it is gratifying to note that the increased catch of sauger, starting in 1979, is verified independently by the IDOC sampling program and by the development of a sport fishery for sauger in the Upper Illinois River (Figure 9). Fish sampling begun in 1990 as part of the Long Term Resource Monitoring Program (LTRM) likewise shows that a substantial population of sauger occur in the La Grange Pool of the Illinois River, just below the navigation dam at Peoria (Figure 1). Although the increased catch of sauger, like the W_r values, shows an improvement in the fish populations that may be related to improved water quality in the last decade, the recent decline in numbers of sauger and in W_r since 1985 may be an early warning of impending problems, and an incentive to determine and correct the causes.

Figure 4. Weight-length relationships and W_r values of common carp taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of W_r values.

Figure 5. Weight-length relationships and W_r values of channel catfish taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of W_r values.

Fig. 4

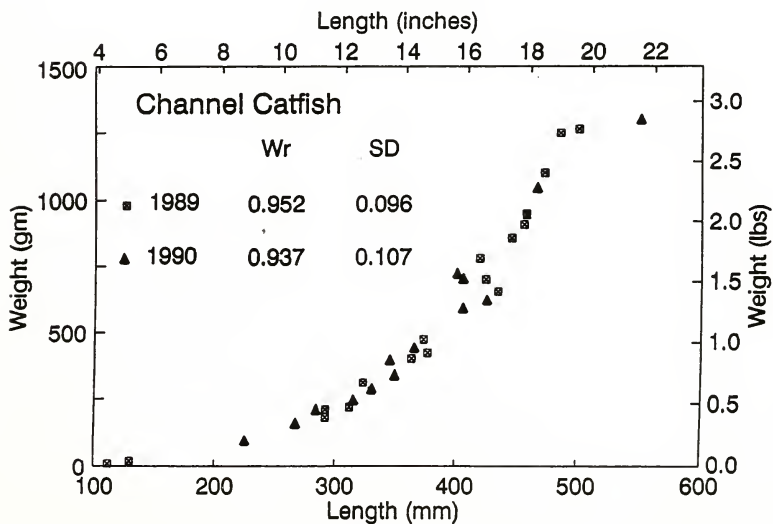
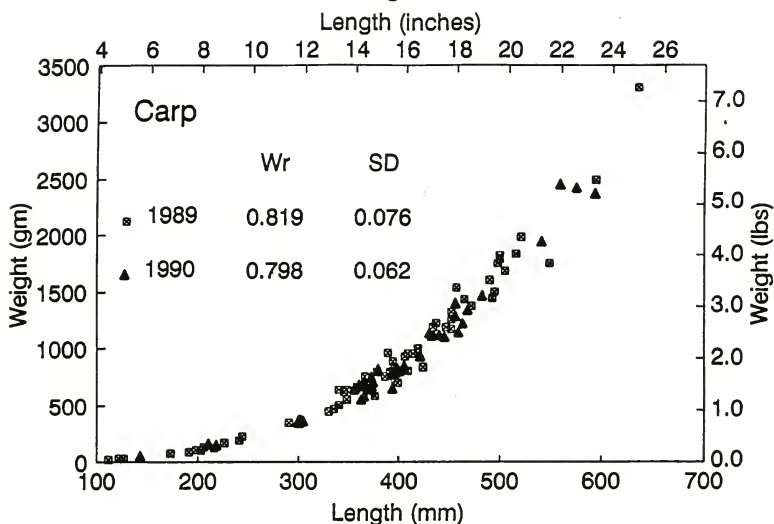


Fig. 5

Figure 6. Weight-length relationships and W_r values of white bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of W_r values.

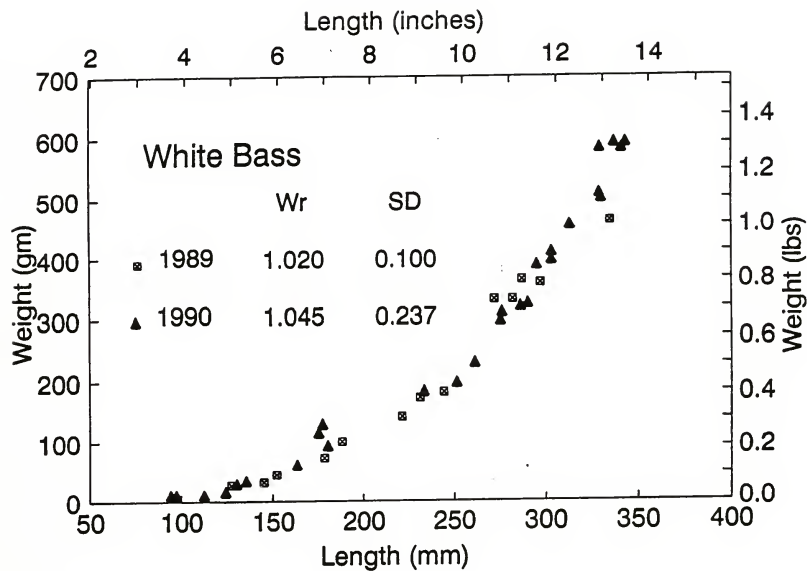


Fig. 6

Figure 7. Weight-length relationships and W_r values of largemouth bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of W_r values.

Figure 8. Weight-length relationships and W_r values of smallmouth bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of W_r values.

Fig. 7

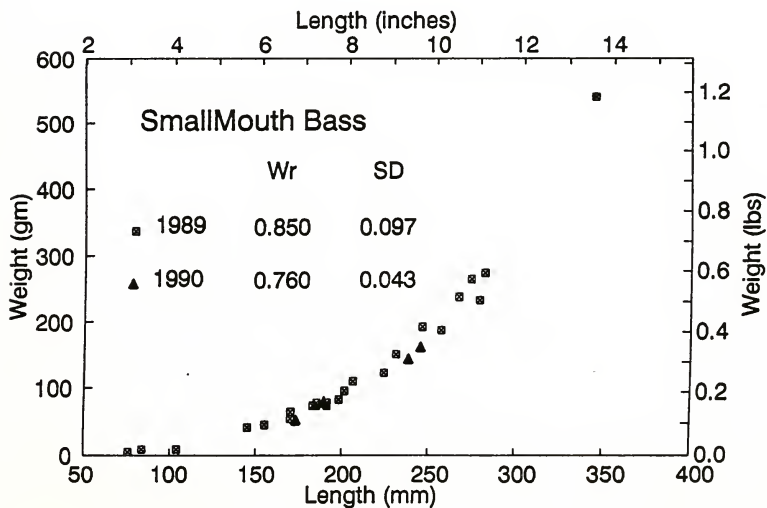
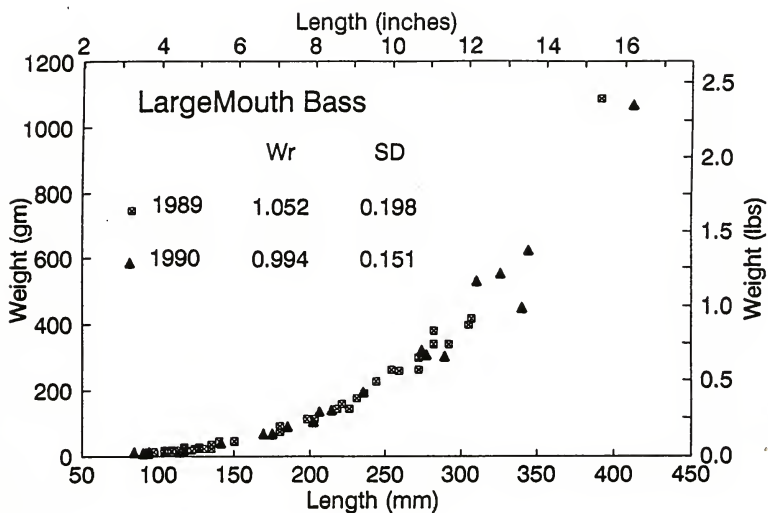


Fig. 8

Figure 9. Total number of sauger collected during annual electrofishing surveys of the Illinois Waterway. The total hours fished were roughly the same each year. Zeros indicate that electrofishing was conducted and no sauger were taken. NF means that no electrofishing was done, either because of high water or lack of funding.

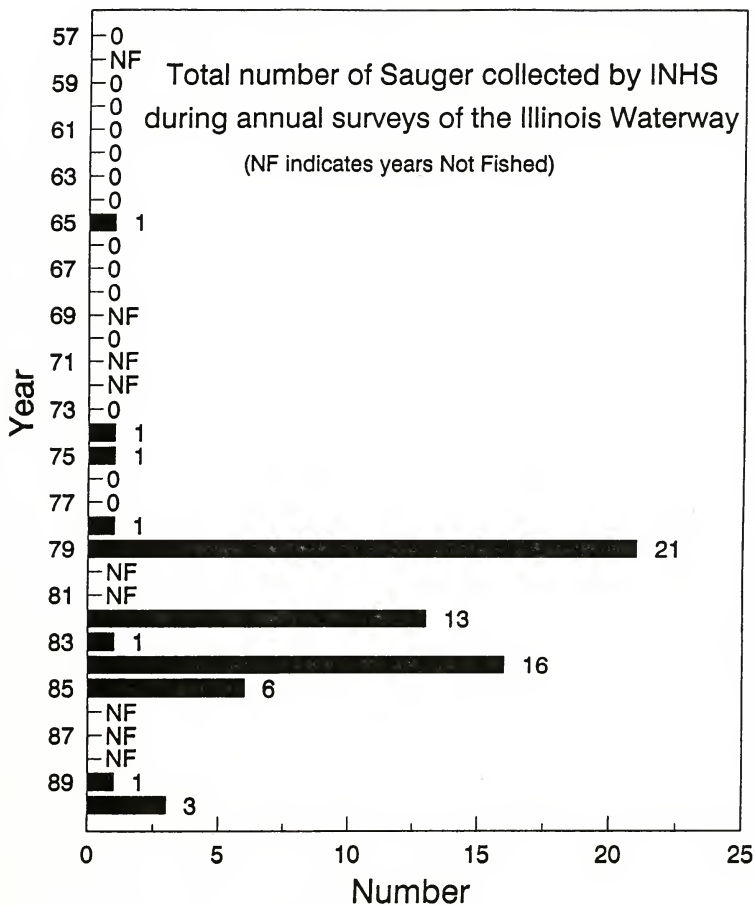


Fig. 9

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Index to Appendix A

(Collections are numbered in order by date of collection)

Collection 1990-	Collection Site	River miles	Collection Date	Page
1	Treats Island	279.4 - 280.0	09/07/90	A-1
2	Mouth of DuPage River	276.8 - 277.8	09/07/90	A-4
3	Waupecan Island	260.2 - 261.1	09/08/90	A-8
4	Johnson Island	249.6 - 249.8	09/08/90	A-11
5	Ballards Island	247.7 - 248.2	09/08/90	A-13
6	Bulls Island Bend	241.1 - 241.6	09/10/90	A-16
7	Bulls Island	240.2 - 240.9	09/10/90	A-18
8	Clark Island	214.9 - 215.6	09/11/90	A-20
9	Hennepin Island	207.5 - 208.1	09/11/90	A-23
10	Upper Twin Sisters	203.0 - 203.5	09/11/90	A-24
11	Lower Twin Sisters	202.6 - 203.2	09/11/90	A-26
12	Henry Island	193.3 - 194.5	09/11/90	A-28
13	Chillicothe Island	180.1 - 181.0	09/11/90	A-31
14	Lower Peoria Lake	163.0 - 163.5	09/12/90	A-35
15	Upper Peoria Lake	170.8 - 170.9	09/12/90	A-38
16	Pekin	154.5 - 154.9	09/13/90	A-41
17	Turkey Island	148.0 - 148.4	09/13/90	A-43
18	Upper Bath Chute	112.8 - 113.2	09/13/90	A-46
19	Lower Bath Chute	107.0 - 107.3	09/13/90	A-49
20	Sugar Creek Island	95.7 - 96.3	09/13/90	A-53
21	Grape-Bar Islands	85.7 - 87.0	09/14/90	A-56
22	Big Blue Island	57.8 - 59.0	09/14/90	A-59
23	Crater-Willow Islands	29.2 - 30.8	09/27/90	A-61
24	Hurricane Island	27.0 - 27.9	09/27/90	A-64
25	Mortland Island	18.3 - 18.8	09/27/90	A-67
26	Brickhouse Slough, Miss. R.	-0- - -0-	09/28/90	A-70
27	Dark Chute	24.4 - 25.5	09/28/90	A-73

May 1991

1990 Electrofishing Summary
Lengths in inches and weights in pounds

Page A- 1

Collection 1990- 1 Treats Island

River mile 279.4 to 280.0

Collection date: 09/07/90

Run = 1.00 hrs

Lepomis macrochirus
bluegill

Number	Length Range	Total Weight	Mean Weight	Disposition
1	5.75 -0-	0.14	0.140	released
Total Number: 1 Number/hr: 1.0 Wt: 0.14 Wt/hr: 0.140				

Pimephales notatus
bluntnose minnow

Number	Length Range	Total Weight	Mean Weight	Disposition
8	1.54 3.07	0.04	0.005	preserved
1	1.61 -0-	-0-	-0-	preserved
Total Number: 9 Number/hr: 9.0 Wt: 0.04 Wt/hr: 0.040				

Cyprinus carpio
carp

Number	Length Range	Total Weight	Mean Weight	Disposition
1	14.37 -0-	1.27	1.270	released
1	14.65 -0-	1.40	1.400	released
1	14.65 -0-	1.64	1.640	released
1	15.63 -0-	1.73	1.730	released
1	17.95 -0-	3.07	3.070	released
1	18.07 -0-	2.50	2.500	released
1	22.64 -0-	5.32	5.320	released
Total Number: 7 Number/hr: 7.0 Wt:16.93 Wt/hr:16.930				

Cyprinus carpio x *Carassius auratus*
carp x goldfish

Number	Length Range	Total Weight	Mean Weight	Disposition
1	9.33 -0-	0.46	0.460	released
1	9.69 -0-	0.48	0.480	released
1	12.56 -0-	1.07	1.070	released
Total Number: 3 Number/hr: 3.0 Wt: 2.01 Wt/hr: 2.010				

Notropis atherinoides
emerald shiner

Number	Length Range	Total Weight	Mean Weight	Disposition
2	3.43 3.90	-0-	-0-	preserved
1	3.46 -0-	-0-	-0-	released
Total Number: 3 Number/hr: 3.0 Wt: 0.00 Wt/hr: 0.000				

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Carassius auratus
goldfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.93	-0-	0.24	0.240	released
1	7.48	-0-	0.27	0.270	released
1	8.39	-0-	0.32	0.320	released

Total Number: 3 Number/hr: 3.0 Wt: 0.83 Wt/hr: 0.830

Notemigonus crysoleucas
golden shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.04	-0-	0.04	0.040	released

Total Number: 1 Number/hr: 1.0 Wt: 0.04 Wt/hr: 0.040

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.61	-0-	-0-	-0-	released
1	2.44	-0-	-0-	-0-	released
1	2.48	-0-	-0-	-0-	released
1	2.87	-0-	0.01	0.010	released
6	2.99	4.02	0.19	0.032	released
1	4.33	-0-	0.04	0.040	released
1	4.45	-0-	0.06	0.060	released
1	5.35	-0-	0.13	0.130	released
1	5.59	-0-	0.15	0.150	released
1	5.71	-0-	0.12	0.120	released

Total Number: 15 Number/hr: 15.0 Wt: 0.70 Wt/hr: 0.700

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.13	-0-	0.17	0.170	released
1	7.24	-0-	0.17	0.170	released
1	7.76	-0-	0.19	0.190	released
1	7.95	-0-	0.23	0.230	released
1	9.09	-0-	0.24	0.240	released
1	9.29	-0-	0.28	0.280	released
1	9.49	-0-	0.27	0.270	released
1	9.65	-0-	0.36	0.360	released
1	9.69	-0-	0.33	0.330	released
1	9.72	-0-	0.36	0.360	released
1	10.04	-0-	0.25	0.250	released
1	10.04	-0-	0.37	0.370	released
1	10.83	-0-	0.38	0.380	released
1	10.98	-0-	0.29	0.290	released
1	11.50	-0-	0.42	0.420	released
1	11.93	-0-	0.55	0.550	released
1	12.72	-0-	0.55	0.550	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Total Number: 17 Number/hr: 17.0 Wt: 5.41 Wt/hr: 5.410

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.07	-0-	-0-	-0-	released
1	3.11	-0-	-0-	-0-	released
1	3.54	-0-	0.01	0.010	released
1	13.39	-0-	0.98	0.980	released

Total Number: 4 Number/hr: 4.0 Wt: 0.99 Wt/hr: 0.990

Lepomis megalotis
longear sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.99	-0-	0.02	0.020	preserved
1	3.54	-0-	0.03	0.030	preserved

Total Number: 2 Number/hr: 2.0 Wt: 0.05 Wt/hr: 0.050

Ambloplites rupestris
rock bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.37	-0-	0.04	0.040	preserved
1	6.69	-0-	0.24	0.240	released

Total Number: 2 Number/hr: 2.0 Wt: 0.28 Wt/hr: 0.280

Notropis blennioides
river shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.00	-0-	0.03	0.030	preserved

Total Number: 1 Number/hr: 1.0 Wt: 0.03 Wt/hr: 0.030

Total for 1990- 1 Number: 68 Number/hr: 68.00 Wt: 27.5 Wt/hr: 27.45

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 2 Mouth of DuPage River
River mile 276.8 to 277.8 Collection date: 09/07/90 Run = 1.00 hrs

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.24	-0-	-0-	-0-	released
1	4.84	-0-	0.08	0.080	released
1	5.28	-0-	0.12	0.120	released
1	5.63	-0-	0.12	0.120	released
1	5.75	-0-	0.13	0.130	released
1	6.06	-0-	0.16	0.160	released
1	-0-	-0-	0.10	0.100	released

Total Number: 7 Number/hr: 7.0 Wt: 0.71 Wt/hr: 0.710

Pimephales notatus
bluntnose minnow

Number	Length	Range	Total Weight	Mean Weight	Disposition
8	1.97	2.80	0.04	0.005	preserved
1	2.83	-0-	-0-	-0-	released

Total Number: 9 Number/hr: 9.0 Wt: 0.04 Wt/hr: 0.040

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.27	-0-	0.33	0.330	released
1	8.58	-0-	0.31	0.310	released
1	13.98	-0-	1.40	1.400	released
1	14.92	-0-	1.78	1.780	released
1	16.93	-0-	2.48	2.480	released

Total Number: 5 Number/hr: 5.0 Wt: 6.30 Wt/hr: 6.300

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.40	-0-	0.53	0.530	released
1	13.74	-0-	0.73	0.730	released
1	15.94	-0-	1.53	1.530	released

Total Number: 3 Number/hr: 3.0 Wt: 2.79 Wt/hr: 2.790

Cyprinus carpio x *Carassius auratus*
carp x goldfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.76	-0-	0.26	0.260	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	8.78	-0-	0.37	0.370	released
1	9.21	-0-	0.45	0.450	released
1	9.25	-0-	0.46	0.460	released
1	10.51	-0-	0.65	0.650	released
1	11.34	-0-	0.76	0.760	released
1	11.65	-0-	0.76	0.760	released
1	12.24	-0-	1.05	1.050	released
1	16.61	-0-	2.30	2.300	released

Total Number: 9 Number/hr: 9.0 Wt: 7.06 Wt/hr: 7.060

Notropis atherinoides
emerald shiner

Number	Length Range		Total Weight	Mean Weight	Disposition
1	1.97	-0-	-0-	-0-	preserved
5	2.99	3.31	0.03	0.006	preserved
2	3.11	3.23	0.02	0.010	preserved

Total Number: 8 Number/hr: 8.0 Wt: 0.05 Wt/hr: 0.050

Carassius auratus
goldfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	6.50	-0-	0.20	0.200	released
1	6.77	-0-	0.21	0.210	released

Total Number: 2 Number/hr: 2.0 Wt: 0.41 Wt/hr: 0.410

Notemigonus crysoleucas
golden shiner

Number	Length Range		Total Weight	Mean Weight	Disposition
2	3.19	3.58	0.01	0.005	preserved

Total Number: 2 Number/hr: 2.0 Wt: 0.01 Wt/hr: 0.010

Lepomis cyanellus
green sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	-0-	-0-	0.02	0.020	released

Total Number: 1 Number/hr: 1.0 Wt: 0.02 Wt/hr: 0.020

Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
1	2.95	-0-	0.01	0.010	released
27	3.19	5.35	0.79	0.029	released
10	5.35	8.35	1.10	0.110	released
8	5.39	6.93	0.66	0.083	released
1	7.17	-0-	0.14	0.140	released
1	7.20	-0-	0.12	0.120	released
1	7.68	-0-	0.17	0.170	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	7.68	-0-	0.16	0.160	released
1	7.72	-0-	0.22	0.220	released
4	8.94	9.61	1.12	0.280	released
5	8.94	10.16	1.61	0.322	released
1	8.98	-0-	0.24	0.240	released
1	9.76	-0-	0.30	0.300	released
1	9.84	-0-	0.31	0.310	released
1	10.00	-0-	0.32	0.320	released
1	10.00	-0-	0.36	0.360	released
1	10.04	-0-	0.34	0.340	released
1	10.12	-0-	0.28	0.280	released
1	10.51	-0-	0.43	0.430	released
1	11.50	-0-	0.49	0.490	released
1	11.50	-0-	0.44	0.440	released
1	12.44	-0-	0.56	0.560	released

Total Number: 71 Number/hr: 71.0 Wt:10.17 Wt/hr:10.170

Micropterus salmoides
largemouth bass

Number	Length Range	Total Weight	Mean Weight	Disposition
1	6.65 -0-	0.14	0.140	released
1	7.28 -0-	0.19	0.190	released
1	10.91 -0-	0.67	0.670	released
1	11.38 -0-	0.66	0.660	released

Total Number: 4 Number/hr: 4.0 Wt: 1.66 Wt/hr: 1.660

Lepomis gibbosus
pumpkinseed

Number	Length Range	Total Weight	Mean Weight	Disposition
1	5.39 -0-	0.10	0.100	released

Total Number: 1 Number/hr: 1.0 Wt: 0.10 Wt/hr: 0.100

Ambloplites rupestris
rock bass

Number	Length Range	Total Weight	Mean Weight	Disposition
1	5.47 -0-	0.12	0.120	released
1	5.87 -0-	0.15	0.150	released

Total Number: 2 Number/hr: 2.0 Wt: 0.27 Wt/hr: 0.270

Micropterus dolomieu
smallmouth bass

Number	Length Range	Total Weight	Mean Weight	Disposition
2	3.43 3.74	0.04	0.020	released
1	6.81 -0-	0.11	0.110	released
1	7.44 -0-	0.17	0.170	preserved

Total Number: 4 Number/hr: 4.0 Wt: 0.32 Wt/hr: 0.320

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Notropis hudsonius
spotail shiner

<u>Number</u>	<u>Length Range</u>	<u>Total Weight</u>	<u>Mean Weight</u>	<u>Disposition</u>
1	2.95 -0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.0 Wt: 0.00 Wt/hr: 0.000

Carioides cyprinus
quillback

<u>Number</u>	<u>Length Range</u>	<u>Total Weight</u>	<u>Mean Weight</u>	<u>Disposition</u>
1	13.62 -0-	0.90	0.900	released

Total Number: 1 Number/hr: 1.0 Wt: 0.90 Wt/hr: 0.900

Total for 1990- 2 Number:130 Number/hr:130.00 Wt:30.8 Wt/hr:30.81

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 3 Waupecan Island
River mile 260.2 to 261.1

Collection date: 09/08/90

Run = 1.00 hrs

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.95	-0-	0.25	0.250	released

Total Number: 1 Number/hr: 1.0 Wt: 0.25 Wt/hr: 0.250

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.61	1.85	-0-	-0-	released
1	2.76	-0-	0.01	0.010	released
1	3.46	-0-	0.03	0.030	released
1	4.02	-0-	0.05	0.050	released
1	5.31	-0-	0.09	0.090	released
1	5.39	-0-	0.11	0.110	released
1	5.47	-0-	0.13	0.130	released
1	5.91	-0-	0.16	0.160	released
1	6.46	-0-	0.23	0.230	released

Total Number: 11 Number/hr: 11.0 Wt: 0.81 Wt/hr: 0.810

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.17	-0-	1.49	1.490	released
1	14.25	-0-	1.46	1.460	released
1	14.69	-0-	1.45	1.450	released
1	14.72	-0-	1.54	1.540	released
1	15.71	-0-	1.78	1.780	released
1	15.94	-0-	1.85	1.850	released
1	16.57	-0-	2.04	2.040	released
1	17.09	-0-	2.44	2.440	released
1	17.52	-0-	2.41	2.410	released
1	18.98	-0-	3.22	3.220	released
1	21.30	-0-	4.27	4.270	released
1	22.01	-0-	5.40	5.400	released
1	-0-	-0-	3.04	3.040	released

Total Number: 13 Number/hr: 13.0 Wt: 32.39 Wt/hr: 32.390

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.75	-0-	1.57	1.570	released

Total Number: 1 Number/hr: 1.0 Wt: 1.57 Wt/hr: 1.570

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	-0-	-0-	0.09	0.090	dead

Total Number: 1 Number/hr: 1.0 Wt: 0.09 Wt/hr: 0.090

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.97	-0-	-0-	-0-	released
1	5.35	-0-	0.11	0.110	released
1	5.39	-0-	0.12	0.120	released
1	5.63	-0-	0.13	0.130	released

Total Number: 4 Number/hr: 4.0 Wt: 0.36 Wt/hr: 0.360

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	5.59	5.87	0.14	0.070	dead
1	9.37	-0-	0.27	0.270	dead

Total Number: 3 Number/hr: 3.0 Wt: 0.41 Wt/hr: 0.410

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.95	-0-	0.22	0.220	released

Total Number: 1 Number/hr: 1.0 Wt: 0.22 Wt/hr: 0.220

Lepomis microlophus
reardear sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.70	-0-	0.04	0.040	released

Total Number: 1 Number/hr: 1.0 Wt: 0.04 Wt/hr: 0.040

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.62	-0-	1.08	1.080	released

Total Number: 1 Number/hr: 1.0 Wt: 1.08 Wt/hr: 1.080

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Notropis blennius
river shiner

<u>Number</u>	<u>Length Range</u>	<u>Total Weight</u>	<u>Mean Weight</u>	<u>Disposition</u>
1	2.40 -0-	-0-	-0-	preserved

Total Number: 1 Number/hr: 1.0 Wt: 0.00 Wt/hr: 0.000

Carpiodes cyprinus
quillback

<u>Number</u>	<u>Length Range</u>	<u>Total Weight</u>	<u>Mean Weight</u>	<u>Disposition</u>
1	12.32 -0-	0.77	0.770	released

Total Number: 1 Number/hr: 1.0 Wt: 0.77 Wt/hr: 0.770

Total for 1990- 3 Number: 39 Number/hr: 39.00 Wt:38.0 Wt/hr:37.99

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 4 Johnson Island

River mile 249.6 to 249.8

Collection date: 09/08/90

Run = 0.47 hrs

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.05	-0-	0.16	0.160	released

Total Number: 1 Number/hr: 2.1 Wt: 0.16 Wt/hr: 0.340

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.39	-0-	0.13	0.130	released
1	5.63	-0-	0.16	0.160	released

Total Number: 2 Number/hr: 4.3 Wt: 0.29 Wt/hr: 0.617

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.25	-0-	1.21	1.210	released
1	14.37	-0-	1.54	1.540	released
1	17.95	-0-	2.82	2.820	released

Total Number: 3 Number/hr: 6.4 Wt: 5.57 Wt/hr: 11.851

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.51	-0-	0.34	0.340	released

Total Number: 1 Number/hr: 2.1 Wt: 0.34 Wt/hr: 0.723

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
35	1.85	3.70	0.18	0.005	released

Total Number: 35 Number/hr: 74.5 Wt: 0.18 Wt/hr: 0.383

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.72	-0-	0.01	0.010	released
1	3.54	-0-	0.03	0.030	released

Total Number: 2 Number/hr: 4.3 Wt: 0.04 Wt/hr: 0.085

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.00	-0-	0.04	0.040	released
1	8.15	-0-	0.21	0.210	released

Total Number: 2 Number/hr: 4.3 Wt: 0.25 Wt/hr: 0.532

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.89	-0-	0.14	0.140	released
1	8.43	-0-	0.30	0.300	released
1	9.25	-0-	0.42	0.420	released

Total Number: 3 Number/hr: 6.4 Wt: 0.86 Wt/hr: 1.830

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.35	-0-	1.04	1.040	released
1	13.66	-0-	1.07	1.070	released

Total Number: 2 Number/hr: 4.3 Wt: 2.11 Wt/hr: 4.489

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.69	-0-	1.53	1.530	released

Total Number: 1 Number/hr: 2.1 Wt: 1.53 Wt/hr: 3.255

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.88	-0-	0.43	0.430	released
1	11.42	-0-	0.71	0.710	released

Total Number: 2 Number/hr: 4.3 Wt: 1.14 Wt/hr: 2.426

Total for 1990- 4 Number: 54 Number/hr:114.89 Wt:12.5 Wt/hr:26.53

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 5 Ballards Island
River mile 247.7 to 248.2 Collection date: 09/08/90 Run = 0.55 hrs

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.83	-0-	0.09	0.090	released
1	6.26	-0-	0.11	0.110	released

Total Number: 2 Number/hr: 3.6 Wt: 0.20 Wt/hr: 0.364

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.34	-0-	-0-	-0-	released
3	1.65	2.01	0.01	0.003	released
2	2.83	2.99	0.04	0.020	released
3	3.82	3.82	0.12	0.040	released

Total Number: 9 Number/hr: 16.4 Wt: 0.17 Wt/hr: 0.309

Pimephales notatus
bluntnose minnow

Number	Length	Range	Total Weight	Mean Weight	Disposition
7	1.38	1.89	0.01	0.001	preserved
1	1.54	-0-	-0-	-0-	released
1	2.32	-0-	-0-	-0-	preserved

Total Number: 9 Number/hr: 16.4 Wt: 0.01 Wt/hr: 0.018

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.89	-0-	0.80	0.800	released
1	15.47	-0-	1.42	1.420	released
1	18.23	-0-	2.67	2.670	released
1	18.43	-0-	2.94	2.940	released

Total Number: 4 Number/hr: 7.3 Wt: 7.83 Wt/hr: 14.236

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.94	-0-	1.28	1.280	released
1	18.35	-0-	2.28	2.280	released

Total Number: 2 Number/hr: 3.6 Wt: 3.56 Wt/hr: 6.473

Notropis atherinoides
emerald shiner

Number	Length Range		Total Weight	Mean Weight	Disposition
8	1.54	2.17	0.01	0.001	preserved
3	2.83	3.46	0.03	0.010	preserved

Total Number: 11 Number/hr: 20.0 Wt: 0.04 Wt/hr: 0.073

Lepomis cyanellus
green sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	1.57	-0-	-0-	-0-	released
1	2.32	-0-	-0-	-0-	released
2	2.32	2.60	0.02	0.010	released
1	3.62	-0-	0.04	0.040	released

Total Number: 5 Number/hr: 9.1 Wt: 0.06 Wt/hr: 0.109

Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
10	3.43	5.00	0.37	0.037	dead
5	7.09	7.68	0.79	0.158	dead
4	9.25	10.16	1.27	0.317	dead
3	10.39	11.73	1.02	0.340	released

Total Number: 22 Number/hr: 40.0 Wt: 3.45 Wt/hr: 6.273

Micropterus salmoides
largemouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	3.31	-0-	0.02	0.020	released
1	3.70	-0-	0.02	0.020	released
1	8.11	-0-	0.29	0.290	released
1	12.83	-0-	1.21	1.210	released

Total Number: 4 Number/hr: 7.3 Wt: 1.54 Wt/hr: 2.800

Ictiobus bubalus
smallmouth buffalo

Number	Length Range		Total Weight	Mean Weight	Disposition
1	8.46	-0-	0.25	0.250	released

Total Number: 1 Number/hr: 1.8 Wt: 0.25 Wt/hr: 0.455

Micropterus dolomieu
smallmouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	9.37	-0-	0.31	0.310	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Total Number: 1 Number/hr: 1.8 Wt: 0.31 Wt/hr: 0.564

Carpododes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.50	-0-	0.52	0.520	released

Total Number: 1 Number/hr: 1.8 Wt: 0.52 Wt/hr: 0.945

Perca flavescens
yellow perch

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.88	-0-	0.06	0.060	released
1	5.12	-0-	0.04	0.040	released

Total Number: 2 Number/hr: 3.6 Wt: 0.10 Wt/hr: 0.182

Total for 1990- 5 Number: 73 Number/hr:132.73 Wt:18.0 Wt/hr:32.80

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 6 Bulls Island Bend
 River mile 241.1 to 241.6 Collection date: 09/10/90 Run = 0.32 hrs

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.81	-0-	0.80	0.800	released

Total Number: 1 Number/hr: 3.1 Wt: 0.80 Wt/hr: 2.500

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.86	-0-	0.20	0.200	released
1	13.58	-0-	0.85	0.850	released
1	16.73	-0-	1.35	1.350	released
1	21.65	-0-	2.85	2.850	released

Total Number: 4 Number/hr: 12.5 Wt: 5.25 Wt/hr: 16.406

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.76	-0-	-0-	-0-	preserved

Total Number: 1 Number/hr: 3.1 Wt: 0.00 Wt/hr: 0.000

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.13	-0-	0.02	0.020	released
1	4.72	-0-	0.05	0.050	released
1	4.72	-0-	0.04	0.040	released
1	5.12	-0-	0.05	0.050	released
1	6.10	-0-	0.08	0.080	released
1	6.81	-0-	0.12	0.120	released
1	6.93	-0-	0.12	0.120	released
1	7.09	-0-	0.13	0.130	released
1	7.09	-0-	0.13	0.130	released
1	7.48	-0-	0.14	0.140	released
1	7.52	-0-	0.15	0.150	released
1	7.52	-0-	0.16	0.160	released
1	7.68	-0-	0.16	0.160	released
1	7.68	-0-	0.18	0.180	released
1	7.87	-0-	0.18	0.180	released
1	8.07	-0-	0.20	0.200	released
1	8.07	-0-	0.18	0.180	released
1	8.50	-0-	0.25	0.250	released
1	9.06	-0-	0.28	0.280	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	9.06	-0-	0.28	0.280	released
1	9.13	-0-	0.25	0.250	released
1	9.25	-0-	0.30	0.300	released
1	9.45	-0-	0.30	0.300	released
1	9.65	-0-	0.32	0.320	released
1	9.88	-0-	0.30	0.300	released

Total Number: 25 Number/hr: 78.1 Wt: 4.37 Wt/hr:13.656

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.80	-0-	0.90	0.900	released

Total Number: 1 Number/hr: 3.1 Wt: 0.90 Wt/hr: 2.813

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.78	-0-	0.01	0.010	preserved

Total Number: 1 Number/hr: 3.1 Wt: 0.01 Wt/hr: 0.031

Micropterus dolomieu
smallmouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.65	-0-	0.35	0.350	released

Total Number: 1 Number/hr: 3.1 Wt: 0.35 Wt/hr: 1.094

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.62	-0-	0.02	0.020	preserved
1	3.94	-0-	0.03	0.030	preserved

Total Number: 2 Number/hr: 6.3 Wt: 0.05 Wt/hr: 0.156

Total for 1990- 6 Number: 36 Number/hr:112.50 Wt:11.7 Wt/hr:36.66

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 7 Bulls Island

River mile 240.2 to 240.9

Collection date: 09/10/90

Run = 0.67 hrs

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.51	-0-	0.13	0.130	released

Total Number: 1 Number/hr: 1.5 Wt: 0.13 Wt/hr: 0.194

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	2.05	3.07	0.03	0.010	preserved
1	2.83	-0-	-0-	-0-	preserved
1	3.23	-0-	-0-	-0-	preserved

Total Number: 5 Number/hr: 7.5 Wt: 0.03 Wt/hr: 0.045

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.80	-0-	0.01	0.010	released

Total Number: 1 Number/hr: 1.5 Wt: 0.01 Wt/hr: 0.015

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.65	-0-	0.05	0.050	released
1	6.69	-0-	0.05	0.050	released
1	6.93	-0-	0.14	0.140	released
1	7.01	-0-	0.12	0.120	released
1	7.09	-0-	0.14	0.140	released
1	7.20	-0-	0.13	0.130	released
1	7.20	-0-	0.13	0.130	released
1	7.28	-0-	0.25	0.250	released
1	7.48	-0-	0.25	0.250	released
1	7.52	-0-	0.13	0.130	released
1	7.64	-0-	0.16	0.160	released
1	11.42	-0-	0.52	0.520	released
1	12.83	-0-	0.55	0.550	released

Total Number: 13 Number/hr: 19.4 Wt: 2.62 Wt/hr: 3.910

Carpiodes velifer
highfin carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	12.20	-0-	0.80	0.800	dead
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Total Number: 1 Number/hr: 1.5 Wt: 0.80 Wt/hr: 1.194

Carpodacus carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.35	-0-	0.44	0.440	dead
1	13.31	-0-	1.05	1.050	dead
1	13.58	-0-	1.05	1.050	released

Total Number: 3 Number/hr: 4.5 Wt: 2.54 Wt/hr: 3.791

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.07	-0-	1.15	1.150	released
1	14.06	-0-	1.28	1.280	released
1	14.17	-0-	1.40	1.400	released
1	14.88	-0-	1.62	1.620	released
1	15.12	-0-	1.55	1.550	released
1	15.16	-0-	1.73	1.730	released
1	16.73	-0-	2.28	2.280	released

Total Number: 7 Number/hr: 10.4 Wt: 11.01 Wt/hr: 16.433

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.25	-0-	0.02	0.020	released

Total Number: 1 Number/hr: 1.5 Wt: 0.02 Wt/hr: 0.030

Total for 1990- 7 Number: 32 Number/hr: 47.76 Wt: 17.2 Wt/hr: 25.61

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 8 Clark Island
River mile 214.9 to 215.6 Collection date: 09/11/90 Run = 0.67 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.75	-0-	2.33	2.330	released
1	15.75	-0-	2.50	2.500	released
1	16.10	-0-	2.75	2.750	released
1	16.18	-0-	2.52	2.520	released
1	16.85	-0-	2.70	2.700	released
1	17.32	-0-	2.80	2.800	released
1	20.87	-0-	5.00	5.000	released

Total Number: 7 Number/hr: 10.4 Wt: 20.60 Wt/hr: 30.746

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.54	-0-	0.01	0.010	released
2	4.25	4.53	0.13	0.065	released
1	6.26	-0-	0.20	0.200	released

Total Number: 4 Number/hr: 6.0 Wt: 0.34 Wt/hr: 0.507

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	23.35	-0-	5.20	5.200	released

Total Number: 1 Number/hr: 1.5 Wt: 5.20 Wt/hr: 7.761

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.99	-0-	0.62	0.620	released

Total Number: 1 Number/hr: 1.5 Wt: 0.62 Wt/hr: 0.925

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.24	-0-	0.17	0.170	released
1	9.25	-0-	0.35	0.350	released
1	16.61	-0-	2.20	2.200	released

Total Number: 3 Number/hr: 4.5 Wt: 2.72 Wt/hr: 4.060

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
4	2.80	2.99	0.03	0.007	released
107	3.15	3.98	1.95	0.018	released
11	3.66	4.33	0.24	0.022	released

Total Number: 122 Number/hr: 182.1 Wt: 2.22 Wt/hr: 3.313

Micropterus salmoides
largemouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	12.20	-0-	1.16	1.160	released

Total Number: 1 Number/hr: 1.5 Wt: 1.16 Wt/hr: 1.731

Ictiobus bubalus
smallmouth buffalo

Number	Length Range		Total Weight	Mean Weight	Disposition
1	12.56	-0-	1.06	1.060	released
1	13.39	-0-	1.10	1.100	released
1	13.82	-0-	1.32	1.320	released
1	13.82	-0-	1.30	1.300	released
1	14.65	-0-	1.45	1.450	released
1	16.38	-0-	2.60	2.600	released
1	16.69	-0-	2.50	2.500	released

Total Number: 7 Number/hr: 10.4 Wt: 11.33 Wt/hr: 16.910

Alosa chrysochloris
skipjack herring

Number	Length Range		Total Weight	Mean Weight	Disposition
2	3.23	4.17	0.03	0.015	released

Total Number: 2 Number/hr: 3.0 Wt: 0.03 Wt/hr: 0.045

Dorosoma petenense
threadfin shad

Number	Length Range		Total Weight	Mean Weight	Disposition
4	3.31	3.74	0.08	0.020	released

Total Number: 4 Number/hr: 6.0 Wt: 0.08 Wt/hr: 0.119

Morone chrysops
white bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	4.41	-0-	0.02	0.020	released
1	10.83	-0-	0.65	0.650	released
1	10.87	-0-	0.68	0.680	released
1	11.93	-0-	0.87	0.870	released
1	12.32	-0-	1.00	1.000	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	13.50	-0-	1.30	1.300	released
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Total	Number: 6	Number/hr: 9.0	Wt: 4.52	Wt/hr: 6.746
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Total for 1990- 8 Number:158 Number/hr:235.82 Wt:48.8 Wt/hr:72.87

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990- 9 Hennepin Island

River mile 207.5 to 208.1

Collection date: 09/11/90

Run = 0.30 hrs

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.62	-0-	0.01	0.010	released

Total Number: 1 Number/hr: 3.3 Wt: 0.01 Wt/hr: 0.033

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.28	-0-	0.50	0.500	released

Total Number: 1 Number/hr: 3.3 Wt: 0.50 Wt/hr: 1.667

Total for 1990- 9 Number: 2 Number/hr: 6.67 Wt: 0.5 Wt/hr: 1.70

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-10 Upper Twin Sisters
River mile 203.0 to 203.5 Collection date: 09/11/90 Run = 0.46 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	21.81	-0-	5.20	5.200	released

Total Number: 1 Number/hr: 2.2 Wt: 5.20 Wt/hr: 11.304

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.78	-0-	0.02	0.020	released

Total Number: 1 Number/hr: 2.2 Wt: 0.02 Wt/hr: 0.043

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.47	-0-	1.70	1.700	released

Total Number: 1 Number/hr: 2.2 Wt: 1.70 Wt/hr: 3.696

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
8	3.50	3.86	0.15	0.019	released

Total Number: 8 Number/hr: 17.4 Wt: 0.15 Wt/hr: 0.326

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.23	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 2.2 Wt: 0.00 Wt/hr: 0.000

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.86	-0-	0.40	0.400	released
1	12.05	-0-	0.90	0.900	released
1	12.72	-0-	1.00	1.000	released
1	12.95	-0-	1.27	1.270	released
1	13.27	-0-	1.20	1.200	released
1	15.98	-0-	2.43	2.430	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1 16.22 -0- 2.60 2.600 released

Total Number: 7 Number/hr: 15.2 Wt: 9.80 Wt/hr: 21.304

Morone saxatilis x M. chrysops
striped bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.06	-0-	0.35	0.350	released
1	11.22	-0-	0.70	0.700	released

Total Number: 2 Number/hr: 4.3 Wt: 1.05 Wt/hr: 2.283

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
6	3.39	3.62	0.05	0.008	released

Total Number: 6 Number/hr: 13.0 Wt: 0.05 Wt/hr: 0.109

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.88	-0-	0.03	0.030	released
1	11.26	-0-	0.70	0.700	released
1	11.61	-0-	0.85	0.850	released
1	12.95	-0-	1.28	1.280	released
1	13.27	-0-	1.30	1.300	released
1	13.43	-0-	1.28	1.280	released

Total Number: 6 Number/hr: 13.0 Wt: 5.44 Wt/hr: 11.826

Total for 1990-10 Number: 33 Number/hr: 71.74 Wt: 23.4 Wt/hr: 50.89

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-11 Lower Twin Sisters
River mile 202.6 to 203.2 Collection date: 09/11/90 Run = 0.47 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	16.54	-0-	2.50	2.500	released
1	17.52	-0-	3.60	3.600	released

Total Number: 2 Number/hr: 4.3 Wt: 6.10 Wt/hr: 12.979

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.91	-0-	0.18	0.180	released
1	6.69	-0-	0.26	0.260	released

Total Number: 2 Number/hr: 4.3 Wt: 0.44 Wt/hr: 0.936

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.61	-0-	0.12	0.120	released

Total Number: 1 Number/hr: 2.1 Wt: 0.12 Wt/hr: 0.255

Moxostoma erythrurum
golden redhorse

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.58	-0-	-0-	-0-	released
1	12.91	-0-	0.82	0.820	released
1	13.35	-0-	0.93	0.930	released

Total Number: 3 Number/hr: 6.4 Wt: 1.75 Wt/hr: 3.723

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	3.23	3.66	0.03	0.010	released

Total Number: 3 Number/hr: 6.4 Wt: 0.03 Wt/hr: 0.064

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.79	-0-	0.70	0.700	released

Total Number: 1 Number/hr: 2.1 Wt: 0.70 Wt/hr: 1.489						
Ictiobus bubalus smallmouth buffalo						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	9.76	-0-	0.44	0.440	released
	1	11.02	-0-	0.68	0.680	released
	1	11.22	-0-	0.72	0.720	released
	1	11.69	-0-	0.75	0.750	released
	1	12.40	-0-	0.97	0.970	released
	1	13.58	-0-	1.35	1.350	released
Total Number: 6 Number/hr: 12.8 Wt: 4.91 Wt/hr:10.447						
Morone saxatilis x M. chrysops striped bass						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	6.81	-0-	0.18	0.180	released
	1	6.81	-0-	0.15	0.150	released
	1	11.73	-0-	0.92	0.920	released
Total Number: 3 Number/hr: 6.4 Wt: 1.25 Wt/hr: 2.660						
Alosa chrysochloris skipjack herring						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	3	3.27	3.50	0.03	0.010	released
Total Number: 3 Number/hr: 6.4 Wt: 0.03 Wt/hr: 0.064						
Morone chrysops white bass						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	5.31	-0-	0.07	0.070	released
	1	6.42	-0-	0.13	0.130	released
	1	6.89	-0-	0.25	0.250	released
	1	6.97	-0-	0.28	0.280	released
	1	7.09	-0-	0.20	0.200	released
	1	9.17	-0-	0.40	0.400	released
	1	11.93	-0-	0.90	0.900	released
	1	12.95	-0-	1.12	1.120	released
	1	12.99	-0-	1.10	1.100	released
Total Number: 9 Number/hr: 19.1 Wt: 4.45 Wt/hr: 9.468						

Total for 1990-11 Number: 33 Number/hr: 70.21 Wt:19.8 Wt/hr:42.09

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-12 Henry Island
River mile 193.3 to 194.5

Collection date: 09/11/90

Run = 0.51 hrs

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.77	-0-	-0-	-0-	released
1	2.24	-0-	-0-	-0-	released
1	3.19	-0-	0.01	0.010	released
1	5.04	-0-	0.10	0.100	released

Total Number: 4 Number/hr: 7.8 Wt: 0.11 Wt/hr: 0.216

Pimephales vigilax
bullhead minnow

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.17	-0-	-0-	-0-	preserved
1	2.80	-0-	-0-	-0-	preserved
1	2.87	-0-	-0-	-0-	preserved

Total Number: 3 Number/hr: 5.9 Wt: 0.00 Wt/hr: 0.000

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.63	-0-	0.10	0.100	released
1	11.81	-0-	0.75	0.750	released
1	11.97	-0-	0.78	0.780	released
1	14.37	-0-	1.50	1.500	released
1	17.32	-0-	2.45	2.450	released

Total Number: 5 Number/hr: 9.8 Wt: 5.58 Wt/hr: 10.941

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.18	-0-	0.45	0.450	released
1	14.37	-0-	0.95	0.950	released

Total Number: 2 Number/hr: 3.9 Wt: 1.40 Wt/hr: 2.745

Pylodictis olivaris
flathead catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	16.73	-0-	1.90	1.900	released

Total Number: 1 Number/hr: 2.0 Wt: 1.90 Wt/hr: 3.725

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.27	-0-	-0-	-0-	released
1	3.46	-0-	0.02	0.020	released
1	3.74	-0-	0.02	0.020	released
1	12.68	-0-	0.90	0.900	released

Total Number: 4 Number/hr: 7.8 Wt: 0.94 Wt/hr: 1.843

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.17	-0-	-0-	-0-	released
1	2.20	-0-	-0-	-0-	released

Total Number: 2 Number/hr: 3.9 Wt: 0.00 Wt/hr: 0.000

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
10	3.15	3.46	0.15	0.015	released

Total Number: 10 Number/hr: 19.6 Wt: 0.15 Wt/hr: 0.294

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.53	-0-	0.03	0.030	released
1	5.55	-0-	0.08	0.080	released
1	13.54	-0-	1.37	1.370	released
1	16.22	-0-	2.35	2.350	released

Total Number: 4 Number/hr: 7.8 Wt: 3.83 Wt/hr: 7.510

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.10	-0-	0.12	0.120	released
1	6.93	-0-	0.20	0.200	released
1	8.78	-0-	0.35	0.350	released
1	10.28	-0-	0.50	0.500	released
1	10.79	-0-	0.60	0.600	released
1	13.35	-0-	1.10	1.100	released
1	13.90	-0-	1.24	1.240	released

Total Number: 7 Number/hr: 13.7 Wt: 4.11 Wt/hr: 8.059

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	4.84	-0-	0.05	0.050	released
1	5.79	-0-	0.12	0.120	released
1	5.79	-0-	0.10	0.100	released
1	6.89	-0-	0.26	0.260	released
1	7.32	-0-	0.19	0.190	released
1	8.86	-0-	0.30	0.300	released

Total Number: 6 Number/hr: 11.8 Wt: 1.02 Wt/hr: 2.000

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.99	-0-	0.03	0.030	released
1	3.70	-0-	0.02	0.020	released
1	3.82	-0-	0.02	0.020	released
1	5.12	-0-	0.06	0.060	released

Total Number: 4 Number/hr: 7.8 Wt: 0.13 Wt/hr: 0.255

Pomoxis annularis
white crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.83	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 2.0 Wt: 0.00 Wt/hr: 0.000

Total for 1990-12 Number: 53 Number/hr:103.92 Wt:19.2 Wt/hr:37.59

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-13 Chillicothe Island
River mile 180.1 to 181.0 Collection date: 09/11/90 Run = 0.65 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.80	-0-	2.10	2.100	released

Total Number: 1 Number/hr: 1.5 Wt: 2.10 Wt/hr: 3.231

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
6	1.65	2.56	0.03	0.005	released
10	3.15	4.37	0.40	0.040	released
4	4.53	5.67	0.40	0.100	released
1	5.71	-0-	0.14	0.140	released
1	6.14	-0-	0.19	0.190	released

Total Number: 22 Number/hr: 33.8 Wt: 1.16 Wt/hr: 1.785

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.88	-0-	0.05	0.050	released
1	8.03	-0-	0.26	0.260	released
1	12.64	-0-	0.96	0.960	released
1	12.80	-0-	1.37	1.370	released
1	13.19	-0-	1.15	1.150	released
1	15.12	-0-	1.80	1.800	released
1	16.97	-0-	2.10	2.100	released
1	18.39	-0-	3.20	3.200	released
1	23.66	-0-	5.30	5.300	released

Total Number: 9 Number/hr: 13.8 Wt: 16.19 Wt/hr: 24.908

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.68	-0-	0.70	0.700	released
1	14.57	-0-	0.97	0.970	released

Total Number: 2 Number/hr: 3.1 Wt: 1.67 Wt/hr: 2.569

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.54	-0-	-0-	-0-	preserved

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Lengths in inches and weights in pounds

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Total Number: 1 Number/hr: 1.5 Wt: 0.00 Wt/hr: 0.000

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.03	-0-	0.01	0.010	released
6	3.23	3.74	0.09	0.015	released
1	3.39	-0-	0.02	0.020	released
1	5.31	-0-	0.06	0.060	released
1	5.83	-0-	0.10	0.100	released
1	6.30	-0-	0.11	0.110	released
1	7.48	-0-	0.16	0.160	released
1	7.56	-0-	0.20	0.200	released

Total Number: 13 Number/hr: 20.0 Wt: 0.75 Wt/hr: 1.154

Moxostoma erythrurum
golden redhorse

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.52	-0-	0.74	0.740	released
1	12.60	-0-	0.83	0.830	released

Total Number: 2 Number/hr: 3.1 Wt: 1.57 Wt/hr: 2.415

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
4	1.42	2.80	-0-	-0-	released
6	3.54	3.98	0.20	0.033	released

Total Number: 10 Number/hr: 15.4 Wt: 0.20 Wt/hr: 0.308

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	2.87	4.13	0.04	0.020	released
1	4.17	-0-	0.02	0.020	released
1	8.70	-0-	0.20	0.200	released
1	10.71	-0-	0.41	0.410	released
1	10.87	-0-	0.42	0.420	released
1	11.26	-0-	0.38	0.380	released
1	11.34	-0-	0.50	0.500	released

Total Number: 8 Number/hr: 12.3 Wt: 1.97 Wt/hr: 3.031

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	4.92	5.31	0.15	0.075	released
1	5.00	-0-	0.05	0.050	released
1	5.16	-0-	0.08	0.080	released

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Lengths in inches and weights in pounds

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1	6.46	-0-	0.15	0.150	released
1	8.27	-0-	0.32	0.320	released

Total Number: 6 Number/hr: 9.2 Wt: 0.75 Wt/hr: 1.154

Carpoides carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.96	-0-	1.38	1.380	released
1	15.39	-0-	1.62	1.620	released

Total Number: 2 Number/hr: 3.1 Wt: 3.00 Wt/hr: 4.615

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.80	-0-	0.25	0.250	released
1	11.02	-0-	0.65	0.650	released
1	11.85	-0-	0.90	0.900	released
1	14.57	-0-	1.67	1.670	released
1	16.81	-0-	2.41	2.410	released

Total Number: 5 Number/hr: 7.7 Wt: 5.88 Wt/hr: 9.046

Stizostedion canadense
sauger

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.07	-0-	0.07	0.070	preserved

Total Number: 1 Number/hr: 1.5 Wt: 0.07 Wt/hr: 0.108

Morone saxatilis x *M. chrysops*
striped bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.17	-0-	0.40	0.400	released

Total Number: 1 Number/hr: 1.5 Wt: 0.40 Wt/hr: 0.615

Notropis hudsonius
spottail shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.56	-0-	-0-	-0-	preserved

Total Number: 1 Number/hr: 1.5 Wt: 0.00 Wt/hr: 0.000

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
7	2.83	3.94	0.14	0.020	released
1	3.19	-0-	-0-	-0-	preserved
3	5.31	5.51	0.22	0.073	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	9.45	-0-	0.50	0.500	released
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Total Number: 12 Number/hr: 18.5 Wt: 0.86 Wt/hr: 1.323

Pomoxis annularis
white crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.39	-0-	0.01	0.010	released
1	8.66	-0-	0.35	0.350	released

Total Number: 2 Number/hr: 3.1 Wt: 0.36 Wt/hr: 0.554

Total for 1990-13 Number: 98 Number/hr:150.77 Wt:36.9 Wt/hr:56.82

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Lengths in inches and weights in pounds

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Collection 1990-14 Lower Peoria Lake
River mile 163.0 to 163.5 Collection date: 09/12/90 Run = 0.57 hrs

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	2.87	3.46	0.03	0.015	released
2	3.98	4.17	0.06	0.030	released
6	4.53	5.20	0.46	0.077	released
5	5.24	5.59	0.57	0.114	released

Total Number: 15 Number/hr: 26.3 Wt: 1.12 Wt/hr: 1.965

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.71	-0-	0.62	0.620	released
1	10.94	-0-	0.68	0.680	released
1	11.14	-0-	0.60	0.600	released
1	11.42	-0-	0.62	0.620	released
1	12.52	-0-	0.95	0.950	released
1	12.52	-0-	0.78	0.780	released
1	12.85	-0-	0.90	0.900	released
1	13.78	-0-	1.20	1.200	released
1	13.98	-0-	1.15	1.150	released
1	14.37	-0-	1.27	1.270	released
1	14.41	-0-	1.55	1.550	released
1	14.49	-0-	1.40	1.400	released
1	14.61	-0-	1.55	1.550	released
1	14.61	-0-	1.45	1.450	released
1	14.88	-0-	1.40	1.400	released
1	15.16	-0-	1.46	1.460	released
1	15.43	-0-	1.75	1.750	released
1	15.47	-0-	1.45	1.450	released
1	15.59	-0-	1.75	1.750	released
1	15.59	-0-	1.75	1.750	released
1	16.34	-0-	2.25	2.250	released
1	16.38	-0-	2.15	2.150	released
1	17.09	-0-	2.05	2.050	released
1	17.36	-0-	2.35	2.350	released
1	17.44	-0-	3.02	3.020	released
1	17.44	-0-	2.65	2.650	released
1	19.45	-0-	3.90	3.900	released
1	19.53	-0-	2.55	2.550	released

Total Number: 28 Number/hr: 49.1 Wt: 45.20 Wt/hr: 79.298

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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	1	12.91	-0-	0.62	0.620	released
Total	Number: 1	Number/hr: 1.8	Wt: 0.62	Wt/hr: 1.088		
<hr/>						
Aplodinotus grunniens freshwater drum						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	4	3.35	4.13	0.07	0.018	released
	1	5.12	-0-	0.05	0.050	released
	1	7.80	-0-	0.18	0.180	released
	1	10.08	-0-	0.40	0.400	released
	1	10.20	-0-	0.45	0.450	released
	1	11.02	-0-	0.60	0.600	released
Total	Number: 9	Number/hr: 15.8	Wt: 1.75	Wt/hr: 3.070		
<hr/>						
Moxostoma erythrurum golden redhorse						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	11.26	-0-	0.55	0.550	released
Total	Number: 1	Number/hr: 1.8	Wt: 0.55	Wt/hr: 0.965		
<hr/>						
Lepomis cyanellus green sunfish						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	3.23	-0-	0.01	0.010	released
	3	4.37	4.92	0.19	0.063	released
	1	4.57	-0-	0.04	0.040	released
	2	5.51	6.50	0.30	0.150	released
Total	Number: 7	Number/hr: 12.3	Wt: 0.54	Wt/hr: 0.947		
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Dorosoma cepedianum gizzard shad						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	32	3.35	3.98	0.62	0.019	released
	3	3.35	3.94	0.06	0.020	released
	7	4.13	4.53	0.18	0.026	released
	4	5.98	6.69	0.34	0.085	released
	6	7.52	8.90	1.05	0.175	released
	1	7.91	-0-	0.15	0.150	released
Total	Number: 53	Number/hr: 93.0	Wt: 2.40	Wt/hr: 4.211		
<hr/>						
Micropterus salmoides largemouth bass						
	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	9.37	-0-	0.40	0.400	released
	1	11.81	-0-	0.86	0.860	released
	1	12.36	-0-	1.05	1.050	released
	1	13.43	-0-	1.50	1.500	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	15.00	-0-	1.97	1.970	released
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Total	Number: 5	Number/hr: 8.8	Wt: 5.78	Wt/hr: 10.140
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Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.62	-0-	1.23	1.230	released
1	14.17	-0-	1.50	1.500	released
1	15.79	-0-	1.58	1.580	released
1	15.91	-0-	1.65	1.650	released

Total	Number: 4	Number/hr: 7.0	Wt: 5.96	Wt/hr: 10.456
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Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.66	-0-	1.30	1.300	released

Total	Number: 1	Number/hr: 1.8	Wt: 1.30	Wt/hr: 2.281
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Stizostedion canadense
sauger

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.42	-0-	0.06	0.060	preserved

Total	Number: 1	Number/hr: 1.8	Wt: 0.06	Wt/hr: 0.105
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Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.38	-0-	0.76	0.760	released

Total	Number: 1	Number/hr: 1.8	Wt: 0.76	Wt/hr: 1.333
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Total for 1990-14	Number: 126	Number/hr: 221.05	Wt: 66.0	Wt/hr: 1.2E2
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-15 Upper Peoria Lake
River mile 170.8 to 170.9 Collection date: 09/12/90 Run = 0.31 hrs

Ictiobus niger
black buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.69	-0-	0.15	0.150	released

Total Number: 1 Number/hr: 3.2 Wt: 0.15 Wt/hr: 0.484

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.81	-0-	0.16	0.160	released
1	7.24	-0-	0.20	0.200	released
1	9.88	-0-	0.65	0.650	released

Total Number: 3 Number/hr: 9.7 Wt: 1.01 Wt/hr: 3.258

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	1.97	2.80	0.02	0.010	released
5	3.35	3.66	0.13	0.026	released
4	3.86	4.37	0.18	0.045	released
5	4.88	5.43	0.50	0.100	released
1	6.30	-0-	0.17	0.170	released

Total Number: 17 Number/hr: 54.8 Wt: 1.00 Wt/hr: 3.226

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.76	-0-	0.23	0.230	released
1	9.61	-0-	0.45	0.450	released
1	14.21	-0-	1.10	1.100	released

Total Number: 3 Number/hr: 9.7 Wt: 1.78 Wt/hr: 5.742

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.30	-0-	0.08	0.080	released
1	8.58	-0-	0.25	0.250	released

Total Number: 2 Number/hr: 6.5 Wt: 0.33 Wt/hr: 1.065

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Lengths in inches and weights in pounds

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Lepomis cyanellus
green sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
2	3.62	3.94	0.06	0.030	released
1	5.63	-0-	0.10	0.100	released

Total Number: 3 Number/hr: 9.7 Wt: 0.16 Wt/hr: 0.516

Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
5	3.62	4.53	0.10	0.020	released
4	7.52	9.17	0.70	0.175	released
7	10.31	12.17	2.85	0.407	released

Total Number: 16 Number/hr: 51.6 Wt: 3.65 Wt/hr: 11.774

Micropterus salmoides
largemouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	4.06	-0-	0.02	0.020	released
1	12.80	-0-	1.13	1.130	released

Total Number: 2 Number/hr: 6.5 Wt: 1.15 Wt/hr: 3.710

Ictiobus bubalus
smallmouth buffalo

Number	Length Range		Total Weight	Mean Weight	Disposition
1	7.13	-0-	0.16	0.160	released
1	9.06	-0-	0.40	0.400	released
1	10.24	-0-	0.55	0.550	released
1	15.83	-0-	2.17	2.170	released

Total Number: 4 Number/hr: 12.9 Wt: 3.28 Wt/hr: 10.581

Lepomis gulosus
warmouth

Number	Length Range		Total Weight	Mean Weight	Disposition
1	1.85	-0-	-0-	-0-	preserved

Total Number: 1 Number/hr: 3.2 Wt: 0.00 Wt/hr: 0.000

Pomoxis annularis
white crappie

Number	Length Range		Total Weight	Mean Weight	Disposition
1	6.77	-0-	0.13	0.130	released
1	6.89	-0-	0.14	0.140	released
1	7.52	-0-	0.22	0.220	released
1	8.35	-0-	0.30	0.300	released
1	8.66	-0-	0.32	0.320	released
1	8.70	-0-	0.32	0.320	released

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Lengths in inches and weights in pounds

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1	8.90	-0-	0.35	0.350	released
1	9.61	-0-	0.48	0.480	released
1	10.04	-0-	0.53	0.530	released
1	12.20	-0-	1.00	1.000	released

Total Number: 10 Number/hr: 32.3 Wt: 3.79 Wt/hr:12.226

Total for 1990-15 Number: 62 Number/hr:200.00 Wt:16.3 Wt/hr:52.58

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Lengths in inches and weights in pounds

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Collection 1990-16 Pekin
River mile 154.5 to 154.9

Collection date: 09/13/90 Run = 0.53 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.42	-0-	0.85	0.850	released
1	11.50	-0-	0.85	0.850	released
1	16.14	-0-	2.55	2.550	released
1	17.17	-0-	2.90	2.900	released
1	17.91	-0-	3.10	3.100	released

Total Number: 5 Number/hr: 9.4 Wt:10.25 Wt/hr:19.340

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.17	-0-	0.05	0.050	released

Total Number: 1 Number/hr: 1.9 Wt: 0.05 Wt/hr: 0.094

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.73	-0-	0.15	0.150	released
1	7.60	-0-	0.20	0.200	released
1	8.35	-0-	0.25	0.250	released
1	8.46	-0-	0.30	0.300	released
1	8.86	-0-	0.30	0.300	released
1	10.63	-0-	0.57	0.570	released

Total Number: 6 Number/hr: 11.3 Wt: 1.77 Wt/hr: 3.340

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
31	2.95	3.54	0.35	0.011	released
10	3.54	3.54	0.15	0.015	released

Total Number: 41 Number/hr: 77.4 Wt: 0.50 Wt/hr: 0.943

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.10	-0-	0.10	0.100	released

Total Number: 1 Number/hr: 1.9 Wt: 0.10 Wt/hr: 0.189

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Lengths in inches and weights in pounds

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Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.45	-0-	0.35	0.350	released
1	9.76	-0-	0.40	0.400	released

Total Number: 2 Number/hr: 3.8 Wt: 0.75 Wt/hr: 1.415

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
6	3.82	4.25	0.08	0.013	released

Total Number: 6 Number/hr: 11.3 Wt: 0.08 Wt/hr: 0.151

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
5	3.15	3.54	0.07	0.014	released
4	3.74	5.12	0.15	0.038	released
2	4.09	4.45	0.05	0.025	released
1	5.75	-0-	0.08	0.080	released
1	7.64	-0-	0.25	0.250	released
1	11.54	-0-	0.75	0.750	released

Total Number: 14 Number/hr: 26.4 Wt: 1.35 Wt/hr: 2.547

Total for 1990-16 Number: 76 Number/hr:143.40 Wt:14.8 Wt/hr:28.02

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-17 Turkey Island
River mile 148.0 to 148.4 Collection date: 09/13/90 Run = 0.47 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.75	-0-	0.84	0.840	released

Total Number: 1 Number/hr: 2.1 Wt: 0.84 Wt/hr: 1.787

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.97	-0-	0.18	0.180	released

Total Number: 1 Number/hr: 2.1 Wt: 0.18 Wt/hr: 0.383

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.93	2.09	-0-	-0-	released
4	3.35	3.74	0.10	0.025	released
1	7.01	-0-	0.25	0.250	released

Total Number: 8 Number/hr: 17.0 Wt: 0.35 Wt/hr: 0.745

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.78	-0-	0.30	0.300	released
1	8.94	-0-	0.34	0.340	released
1	15.08	-0-	1.70	1.700	released
1	15.43	-0-	1.65	1.650	released
1	15.51	-0-	1.85	1.850	released
1	16.18	-0-	1.80	1.800	released
1	16.46	-0-	2.05	2.050	released

Total Number: 7 Number/hr: 14.9 Wt: 9.69 Wt/hr: 20.617

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.58	-0-	0.26	0.260	released
1	15.00	-0-	1.75	1.750	released

Total Number: 2 Number/hr: 4.3 Wt: 2.01 Wt/hr: 4.277

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Lepomis cyanellus
green sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
2	1.85	1.85	-0-	-0-	released

Total Number: 2 Number/hr: 4.3 Wt: 0.00 Wt/hr: 0.000

Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
2	3.39	3.54	0.01	0.005	released

Total Number: 2 Number/hr: 4.3 Wt: 0.01 Wt/hr: 0.021

Micropterus salmoides
largemouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	13.19	-0-	1.30	1.300	released

Total Number: 1 Number/hr: 2.1 Wt: 1.30 Wt/hr: 2.766

Percina caprodes
logperch

Number	Length Range		Total Weight	Mean Weight	Disposition
1	2.76	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 2.1 Wt: 0.00 Wt/hr: 0.000

Carpiodes carpio
river carpsucker

Number	Length Range		Total Weight	Mean Weight	Disposition
1	7.83	-0-	0.25	0.250	released
1	10.00	-0-	0.42	0.420	released

Total Number: 2 Number/hr: 4.3 Wt: 0.67 Wt/hr: 1.426

Moxostoma macrolepidotum
shorthead redhorse

Number	Length Range		Total Weight	Mean Weight	Disposition
1	13.39	-0-	0.95	0.950	released

Total Number: 1 Number/hr: 2.1 Wt: 0.95 Wt/hr: 2.021

Alosa chrysochloris
skipjack herring

Number	Length Range		Total Weight	Mean Weight	Disposition
3	3.58	4.06	0.03	0.010	released

Total Number: 3 Number/hr: 6.4 Wt: 0.03 Wt/hr: 0.064

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Dorosoma petenense
threadfin shad

	Number	Length Range		Total Weight	Mean Weight	Disposition
	5	3.35	3.86	0.07	0.014	preserved
Total	Number: 5	Number/hr: 10.6		Wt: 0.07	Wt/hr: 0.149	

Morone chrysops
white bass

	Number	Length Range		Total Weight	Mean Weight	Disposition
	3	3.15	4.13	0.05	0.017	released
	3	5.47	5.67	0.20	0.067	released
	2	5.55	5.79	0.15	0.075	released
	1	10.71	-0-	0.60	0.600	released
	1	10.75	-0-	0.55	0.550	released
	1	11.26	-0-	0.65	0.650	released
Total	Number: 11	Number/hr: 23.4		Wt: 2.20	Wt/hr: 4.681	

Pomoxis annularis
white crappie

	Number	Length Range		Total Weight	Mean Weight	Disposition
	1	3.35	-0-	-0-	-0-	released
Total	Number: 1	Number/hr: 2.1		Wt: 0.00	Wt/hr: 0.000	

Total for 1990-17 Number: 48 Number/hr:102.13 Wt:18.3 Wt/hr:38.94

Collection 1990-18 Upper Bath Chute
River mile 112.8 to 113.2 Collection date: 09/13/90 Run = 0.62 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	16.54	-0-	2.80	2.800	released

Total Number: 1 Number/hr: 1.6 Wt: 2.80 Wt/hr: 4.516

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.64	-0-	0.28	0.280	released
1	10.63	-0-	0.82	0.820	released

Total Number: 2 Number/hr: 3.2 Wt: 1.10 Wt/hr: 1.774

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
8	1.61	2.28	0.03	0.004	released
2	2.87	3.11	0.03	0.015	released
1	5.35	-0-	0.14	0.140	released
1	6.61	-0-	0.23	0.230	released
1	7.17	-0-	0.34	0.340	released

Total Number: 13 Number/hr: 21.0 Wt: 0.77 Wt/hr: 1.242

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.13	-0-	0.44	0.440	released
1	11.77	-0-	0.80	0.800	released
1	12.05	-0-	0.77	0.770	released
1	15.08	-0-	1.40	1.400	released
1	15.51	-0-	1.60	1.600	released
1	16.06	-0-	2.00	2.000	released

Total Number: 6 Number/hr: 9.7 Wt: 7.01 Wt/hr: 11.306

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.01	-0-	0.57	0.570	released

Total Number: 1 Number/hr: 1.6 Wt: 0.57 Wt/hr: 0.919

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Notropis atherinoides
emerald shiner

Number	Length Range		Total Weight	Mean Weight	Disposition
2	1.57	1.61	-0-	-0-	released
4	2.09	3.23	-0-	-0-	preserved

Total Number: 6 Number/hr: 9.7 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	29.72	-0-	13.00	13.000	released

Total Number: 1 Number/hr: 1.6 Wt:13.00 Wt/hr:20.968

Aplodinotus grunniens
freshwater drum

Number	Length Range		Total Weight	Mean Weight	Disposition
1	7.91	-0-	0.22	0.220	released

Total Number: 1 Number/hr: 1.6 Wt: 0.22 Wt/hr: 0.355

Lepomis cyanellus
green sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	3.78	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.6 Wt: 0.00 Wt/hr: 0.000

Dorosoma cepedianum
gizzard shad

Number	Length Range		Total Weight	Mean Weight	Disposition
42	2.91	3.74	0.57	0.014	released
2	4.65	4.96	0.08	0.040	released
14	5.47	6.77	1.09	0.078	released

Total Number: 58 Number/hr: 93.5 Wt: 1.74 Wt/hr: 2.806

Micropterus salmoides
largemouth bass

Number	Length Range		Total Weight	Mean Weight	Disposition
1	10.75	-0-	0.68	0.680	released
1	11.93	-0-	1.01	1.010	released
1	14.69	-0-	1.83	1.830	released

Total Number: 3 Number/hr: 4.8 Wt: 3.52 Wt/hr: 5.677

Lepomis humilis
orangespotted sunfish

Number	Length Range		Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1 2.83 -0- -0- -0- released

Total Number: 1 Number/hr: 1.6 Wt: 0.00 Wt/hr: 0.000

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
5	3.78	4.41	0.13	0.026	released
1	7.32	-0-	0.12	0.120	released

Total Number: 6 Number/hr: 9.7 Wt: 0.25 Wt/hr: 0.403

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
7	2.91	3.23	0.07	0.010	released
5	3.50	3.86	0.08	0.016	released

Total Number: 12 Number/hr: 19.4 Wt: 0.15 Wt/hr: 0.242

Carpiodes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.74	-0-	0.34	0.340	released

Total Number: 1 Number/hr: 1.6 Wt: 0.34 Wt/hr: 0.548

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
5	3.98	4.53	0.13	0.026	released
6	4.92	5.47	0.34	0.057	released
1	6.54	-0-	0.13	0.130	released
1	12.05	-0-	0.85	0.850	released
1	13.54	-0-	1.33	1.330	released

Total Number: 14 Number/hr: 22.6 Wt: 2.78 Wt/hr: 4.484

Total for 1990-18 Number:127 Number/hr:204.84 Wt:34.3 Wt/hr:55.24

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-19 Lower Bath Chute
River mile 107.0 to 107.3 Collection date: 09/13/90 Run = 0.57 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.31	-0-	2.05	2.050	released
1	16.10	-0-	2.71	2.710	released
1	17.48	-0-	3.29	3.290	released
1	18.66	-0-	4.44	4.440	released

Total Number: 4 Number/hr: 7.0 Wt:12.49 Wt/hr:21.912

Ictiobus niger
black buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.30	-0-	0.79	0.790	released
1	14.88	-0-	2.00	2.000	released

Total Number: 2 Number/hr: 3.5 Wt: 2.79 Wt/hr: 4.895

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.54	-0-	0.16	0.160	released
1	6.73	-0-	0.16	0.160	released
1	6.85	-0-	0.18	0.180	released
1	7.09	-0-	0.18	0.180	released
1	7.13	-0-	0.21	0.210	released
1	7.17	-0-	0.23	0.230	released
1	7.17	-0-	0.22	0.220	released
1	7.32	-0-	0.24	0.240	released
1	7.40	-0-	0.27	0.270	released
1	7.44	-0-	0.24	0.240	released
1	7.56	-0-	0.28	0.280	released
1	7.80	-0-	0.29	0.290	released
1	9.45	-0-	0.58	0.580	released
1	10.35	-0-	0.70	0.700	released
1	10.47	-0-	0.78	0.780	released

Total Number: 15 Number/hr: 26.3 Wt: 4.72 Wt/hr: 8.281

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.89	-0-	-0-	-0-	released
2	2.01	2.20	-0-	-0-	released
3	3.66	4.49	0.13	0.043	released
1	5.35	-0-	0.15	0.150	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	5.71	-0-	0.14	0.140	released
1	6.93	-0-	0.27	0.270	released
1	7.09	-0-	0.27	0.270	released

 Total Number: 10 Number/hr: 17.5 Wt: 0.96 Wt/hr: 1.684

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.47	-0-	1.86	1.860	released
1	15.51	-0-	1.70	1.700	released
1	17.52	-0-	2.73	2.730	released

 Total Number: 3 Number/hr: 5.3 Wt: 6.29 Wt/hr: 11.035

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.24	-0-	0.35	0.350	released
1	12.48	-0-	0.65	0.650	released

 Total Number: 2 Number/hr: 3.5 Wt: 1.00 Wt/hr: 1.754

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
6	1.42	2.01	-0-	-0-	released

 Total Number: 6 Number/hr: 10.5 Wt: 0.00 Wt/hr: 0.000

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	3.78	4.37	0.08	0.027	released
1	17.09	-0-	3.00	3.000	released

 Total Number: 4 Number/hr: 7.0 Wt: 3.08 Wt/hr: 5.404

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
4	2.80	3.27	0.07	0.018	released
7	3.78	4.29	0.28	0.040	released
1	4.84	4.49	0.03	0.030	released

 Total Number: 12 Number/hr: 21.1 Wt: 0.38 Wt/hr: 0.667

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
7	2.76	3.54	0.09	0.013	released

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Lengths in inches and weights in pounds

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2 5.39 6.14 0.14 0.070 released

Total Number: 9 Number/hr: 15.8 Wt: 0.23 Wt/hr: 0.404

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.92	-0-	0.07	0.070	released
1	5.55	-0-	0.09	0.090	released
1	9.53	-0-	0.45	0.450	released
1	10.87	-0-	0.74	0.740	released
1	11.54	-0-	0.86	0.860	released
1	12.13	-0-	0.96	0.960	released
1	12.52	-0-	1.04	1.040	released
1	14.96	-0-	1.78	1.780	released
1	15.47	-0-	2.22	2.220	released

Total Number: 9 Number/hr: 15.8 Wt: 8.21 Wt/hr: 14.404

Lepisosteus osseus
longnose gar

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.55	-0-	0.44	0.440	released

Total Number: 1 Number/hr: 1.8 Wt: 0.44 Wt/hr: 0.772

Carpiodes carpio
river carpsucker

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.87	-0-	1.05	1.050	released
1	13.19	-0-	1.10	1.100	released

Total Number: 2 Number/hr: 3.5 Wt: 2.15 Wt/hr: 3.772

Ictiobus bubalus
smallmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.84	-0-	0.51	0.510	released
1	11.97	-0-	0.81	0.810	released
1	12.09	-0-	0.97	0.970	released

Total Number: 3 Number/hr: 5.3 Wt: 2.29 Wt/hr: 4.018

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
4	3.19	4.92	0.07	0.018	released
2	6.50	7.40	0.19	0.095	released

Total Number: 6 Number/hr: 10.5 Wt: 0.26 Wt/hr: 0.456

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Dorosoma petenense
threadfin shad

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
13	2.95	3.58	0.15	0.012	released

Total Number: 13 Number/hr: 22.8 Wt: 0.15 Wt/hr: 0.263

Morone chrysops
white bass

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
2	3.82	4.09	0.05	0.025	released
1	7.80	-0-	0.23	0.230	released
1	10.91	-0-	0.65	0.650	released
1	14.29	-0-	1.34	1.340	released

Total Number: 5 Number/hr: 8.8 Wt: 2.27 Wt/hr: 3.982

Pomoxis annularis
white crappie

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
1	10.75	-0-	0.63	0.630	released

Total Number: 1 Number/hr: 1.8 Wt: 0.63 Wt/hr: 1.105

Total for 1990-19 Number:107 Number/hr:187.72 Wt:48.3 Wt/hr:84.81

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-20 Sugar Creek Island
River mile 95.7 to 96.3 Collection date: 09/13/90 Run = 0.61 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	21.46	-0-	5.75	5.750	released
Total Number: 1 Number/hr: 1.6 Wt: 5.75 Wt/hr: 9.426					

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.17	-0-	0.23	0.230	released
Total Number: 1 Number/hr: 1.6 Wt: 0.23 Wt/hr: 0.377					

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.97	-0-	-0-	-0-	released
1	4.49	-0-	0.07	0.070	released
Total Number: 2 Number/hr: 3.3 Wt: 0.07 Wt/hr: 0.115					

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.26	-0-	0.67	0.670	released
1	14.45	-0-	1.49	1.490	released
1	15.47	-0-	1.55	1.550	released
1	15.67	-0-	1.72	1.720	released
1	15.67	-0-	1.43	1.430	released
1	16.02	-0-	2.09	2.090	released
1	16.02	-0-	1.98	1.980	released
1	16.06	-0-	1.79	1.790	released
1	16.38	-0-	2.48	2.480	released
1	16.42	-0-	2.13	2.130	released
1	16.81	-0-	1.96	1.960	released
1	16.97	-0-	1.92	1.920	released
1	17.01	-0-	2.06	2.060	released
1	17.80	-0-	2.43	2.430	released
1	18.35	-0-	2.87	2.870	released
1	18.62	-0-	3.28	3.280	released
1	20.00	-0-	3.65	3.650	released
Total Number: 17 Number/hr: 27.9 Wt: 35.50 Wt/hr: 58.197					

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.54	-0-	0.09	0.090	released
1	13.35	-0-	0.78	0.780	released
1	14.37	-0-	1.08	1.080	released
1	18.66	-0-	2.52	2.520	released
1	19.57	-0-	2.74	2.740	released

Total Number: 5 Number/hr: 8.2 Wt: 7.21 Wt/hr:11.820

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.77	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.6 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.59	-0-	0.44	0.440	released

Total Number: 1 Number/hr: 1.6 Wt: 0.44 Wt/hr: 0.721

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	4.13	4.49	0.11	0.055	released
1	12.60	-0-	1.06	1.060	released

Total Number: 3 Number/hr: 4.9 Wt: 1.17 Wt/hr: 1.918

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.11	-0-	0.03	0.030	released

Total Number: 1 Number/hr: 1.6 Wt: 0.03 Wt/hr: 0.049

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	2.80	3.54	-0-	-0-	released

Total Number: 2 Number/hr: 3.3 Wt: 0.00 Wt/hr: 0.000

Alosa chrysochloris
skipjack herring

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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4 3.70 4.25 0.08 0.020 released

Total Number: 4 Number/hr: 6.6 Wt: 0.08 Wt/hr: 0.131

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.27	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.6 Wt: 0.00 Wt/hr: 0.000

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
4	4.29	5.00	0.16	0.040	released
1	5.20	-0-	0.06	0.060	released

Total Number: 5 Number/hr: 8.2 Wt: 0.22 Wt/hr: 0.361

Total for 1990-20 Number: 44 Number/hr: 72.13 Wt:50.7 Wt/hr:83.11

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Lengths in inches and weights in pounds

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Collection 1990-21 Grape-Bar Islands

River mile 85.7 to 87.0

Collection date: 09/14/90

Run = 0.73 hrs

Lepomis macrochirus
bluegill

Number	Length Range		Total Weight	Mean Weight	Disposition
5	1.57	2.05	-0-	-0-	released
1	3.82	-0-	0.05	0.050	released

Total Number: 6 Number/hr: 8.2 Wt: 0.05 Wt/hr: 0.068

Cyprinus carpio
carp

Number	Length Range		Total Weight	Mean Weight	Disposition
1	8.90	-0-	0.35	0.350	released
1	20.67	-0-	4.60	4.600	released

Total Number: 2 Number/hr: 2.7 Wt: 4.95 Wt/hr: 6.781

Ictalurus punctatus
channel catfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	17.05	-0-	1.60	1.600	released
1	17.44	-0-	1.80	1.800	released
1	17.52	-0-	1.65	1.650	released
1	17.80	-0-	1.75	1.750	released
1	19.09	-0-	2.50	2.500	released
1	20.87	-0-	3.85	3.850	released

Total Number: 6 Number/hr: 8.2 Wt: 13.15 Wt/hr: 18.014

Notropis atherinoides
emerald shiner

Number	Length Range		Total Weight	Mean Weight	Disposition
4	1.34	3.15	-0-	-0-	preserved

Total Number: 4 Number/hr: 5.5 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length Range		Total Weight	Mean Weight	Disposition
1	8.98	-0-	0.25	0.250	released

Total Number: 1 Number/hr: 1.4 Wt: 0.25 Wt/hr: 0.342

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.54	-0-	0.02	0.020	released
1	13.07	-0-	0.95	0.950	released

Total Number: 2 Number/hr: 2.7 Wt: 0.97 Wt/hr: 1.329

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.97	3.11	-0-	-0-	released

Total Number: 3 Number/hr: 4.1 Wt: 0.00 Wt/hr: 0.000

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
9	2.56	3.35	0.10	0.011	released
1	5.91	-0-	0.10	0.100	released

Total Number: 10 Number/hr: 13.7 Wt: 0.20 Wt/hr: 0.274

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.15	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.4 Wt: 0.00 Wt/hr: 0.000

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	2.99	3.15	-0-	-0-	released

Total Number: 2 Number/hr: 2.7 Wt: 0.00 Wt/hr: 0.000

Carpiodes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.02	-0-	0.03	0.030	released

Total Number: 1 Number/hr: 1.4 Wt: 0.03 Wt/hr: 0.041

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	3.62	4.02	0.05	0.025	released
1	5.31	-0-	0.07	0.070	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Total	Number: 3	Number/hr: 4.1	Wt: 0.12	Wt/hr: 0.164
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Total for 1990-21 Number: 41 Number/hr: 56.16 Wt:19.7 Wt/hr:27.01

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-22 Big Blue Island
River mile 57.8 to 59.0 Collection date: 09/14/90 Run = 0.87 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.58	-0-	1.65	1.650	released
1	16.85	-0-	2.80	2.800	released
1	18.11	-0-	3.95	3.950	released

Total Number: 3 Number/hr: 3.4 Wt: 8.40 Wt/hr: 9.655

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.38	-0-	0.24	0.240	released

Total Number: 1 Number/hr: 1.1 Wt: 0.24 Wt/hr: 0.276

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	18.50	-0-	3.57	3.570	released
1	19.69	-0-	4.10	4.100	released
1	20.28	-0-	5.25	5.250	released
1	20.87	-0-	4.45	4.450	released

Total Number: 4 Number/hr: 4.6 Wt: 17.37 Wt/hr: 19.966

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.63	-0-	0.37	0.370	released
1	14.33	-0-	0.96	0.960	released
1	14.80	-0-	1.15	1.150	released
1	15.08	-0-	1.20	1.200	released
1	16.93	-0-	1.95	1.950	released
1	17.91	-0-	2.25	2.250	released

Total Number: 6 Number/hr: 6.9 Wt: 7.88 Wt/hr: 9.057

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	0.37	-0-	0.01	0.010	released

Total Number: 1 Number/hr: 1.1 Wt: 0.01 Wt/hr: 0.011

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Dorosoma cepedianum
gizzard shad

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
1	2.91	3.31	0.04	0.040	released

Total Number: 1 Number/hr: 1.1 Wt: 0.04 Wt/hr: 0.046

Lepisosteus platostomus
shortnose gar

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
1	14.76	-0-	3.70	3.700	released

Total Number: 1 Number/hr: 1.1 Wt: 3.70 Wt/hr: 4.253

Micropterus dolomieu
smallmouth bass

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
1	14.17	-0-	1.30	1.300	released

Total Number: 1 Number/hr: 1.1 Wt: 1.30 Wt/hr: 1.494

Morone chrysops
white bass

<u>Number</u>	<u>Length</u>	<u>Range</u>	<u>Total</u> <u>Weight</u>	<u>Mean</u> <u>Weight</u>	<u>Disposition</u>
1	4.41	-0-	0.02	0.020	released
1	5.98	-0-	0.12	0.120	released

Total Number: 2 Number/hr: 2.3 Wt: 0.14 Wt/hr: 0.161

Total for 1990-22 Number: 20 Number/hr: 22.99 Wt:39.1 Wt/hr:44.92

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-23 Crater-Willow Islands
River mile 29.2 to 30.8 Collection date: 09/27/90 Run = 0.50 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	16.14	-0-	2.28	2.280	released
1	16.54	-0-	2.23	2.230	released

Total Number: 2 Number/hr: 4.0 Wt: 4.51 Wt/hr: 9.020

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.87	-0-	0.28	0.280	released

Total Number: 1 Number/hr: 2.0 Wt: 0.28 Wt/hr: 0.560

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.61	1.97	-0-	-0-	released
1	2.52	-0-	-0-	-0-	released
1	5.12	-0-	0.08	0.080	released

Total Number: 5 Number/hr: 10.0 Wt: 0.08 Wt/hr: 0.160

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	16.22	-0-	2.00	2.000	released
1	16.34	-0-	2.25	2.250	released
1	16.34	-0-	1.80	1.800	released
1	16.73	-0-	2.29	2.290	released
1	16.85	-0-	1.13	1.130	released
1	17.01	-0-	3.00	3.000	released
1	17.32	-0-	2.30	2.300	released
1	17.52	-0-	2.52	2.520	released
1	17.72	-0-	2.50	2.500	released
1	17.91	-0-	2.94	2.940	released

Total Number: 10 Number/hr: 20.0 Wt: 22.73 Wt/hr: 45.460

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.08	-0-	0.33	0.330	released
1	10.24	-0-	0.31	0.310	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	11.14	-0-	0.44	0.440	released
1	11.46	-0-	0.49	0.490	released
1	11.50	-0-	0.44	0.440	released
1	13.62	-0-	1.74	1.740	released
1	13.98	-0-	0.84	0.840	released
1	14.17	-0-	0.91	0.910	released
1	14.65	-0-	0.95	0.950	released
1	14.76	-0-	1.00	1.000	released
1	15.67	-0-	1.20	1.200	released
1	20.28	-0-	3.25	3.250	released

Total Number: 12 Number/hr: 24.0 Wt: 11.90 Wt/hr: 23.800

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.46	2.01	-0-	-0-	released

Total Number: 3 Number/hr: 6.0 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.20	-0-	0.63	0.630	released

Total Number: 1 Number/hr: 2.0 Wt: 0.63 Wt/hr: 1.260

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	3.94	4.84	0.09	0.030	released
1	10.63	-0-	0.52	0.520	released

Total Number: 4 Number/hr: 8.0 Wt: 0.61 Wt/hr: 1.220

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	2.64	3.35	0.04	0.013	released
2	2.72	3.19	0.13	0.065	released
1	6.22	-0-	0.09	0.090	released

Total Number: 6 Number/hr: 12.0 Wt: 0.26 Wt/hr: 0.520

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.50	-0-	0.77	0.770	released
1	14.57	-0-	1.42	1.420	released

Total Number: 2 Number/hr: 4.0 Wt: 2.19 Wt/hr: 4.380

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Hiodon tergisus
mooneye

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.40	-0-	0.64	0.640	released

Total Number: 1 Number/hr: 2.0 Wt: 0.64 Wt/hr: 1.280

Lepomis humilis
orangespotted sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.81	-0-	-0-	-0-	released
1	3.43	-0-	0.04	0.040	released
1	3.58	-0-	0.03	0.030	released

Total Number: 3 Number/hr: 6.0 Wt: 0.07 Wt/hr: 0.140

Moxostoma macrolepidotum
shorthead redhorse

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.16	-0-	1.23	1.230	released

Total Number: 1 Number/hr: 2.0 Wt: 1.23 Wt/hr: 2.460

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.02	-0-	0.04	0.040	released
1	4.33	-0-	0.04	0.040	released
1	10.94	-0-	0.63	0.630	released
1	11.61	-0-	0.75	0.750	released
1	12.09	-0-	0.85	0.850	released
1	13.31	-0-	1.06	1.060	released

Total Number: 6 Number/hr: 12.0 Wt: 3.37 Wt/hr: 6.740

Total for 1990-23 Number: 57 Number/hr:114.00 Wt:48.5 Wt/hr:97.00

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-24 Hurricane Island
River mile 27.0 to 27.9 Collection date: 09/27/90 Run = 0.97 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.98	-0-	2.50	2.500	released
1	17.01	-0-	2.80	2.800	released

Total Number: 2 Number/hr: 2.1 Wt: 5.30 Wt/hr: 5.464

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.30	-0-	0.13	0.130	released
1	6.85	-0-	0.18	0.180	released
1	6.89	-0-	0.18	0.180	released
1	6.97	-0-	0.17	0.170	released
1	7.24	-0-	0.22	0.220	released
1	7.32	-0-	0.22	0.220	released
1	8.35	-0-	0.37	0.370	released
1	8.82	-0-	0.40	0.400	released

Total Number: 8 Number/hr: 8.2 Wt: 1.87 Wt/hr: 1.928

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.46	-0-	-0-	-0-	released
1	3.39	-0-	0.02	0.020	released
5	3.46	4.33	0.20	0.040	released
3	5.12	5.39	0.32	0.107	released
3	5.75	6.46	0.56	0.187	released
1	6.50	-0-	0.22	0.220	released

Total Number: 14 Number/hr: 14.4 Wt: 1.32 Wt/hr: 1.361

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.76	-0-	0.48	0.480	released
1	15.83	-0-	2.20	2.200	released
1	15.91	-0-	1.98	1.980	released
1	15.98	-0-	1.92	1.920	released
1	16.10	-0-	2.04	2.040	released
1	16.93	-0-	2.17	2.170	released
1	17.44	-0-	2.32	2.320	released
1	17.56	-0-	2.72	2.720	released
1	17.72	-0-	2.42	2.420	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	17.80	-0-	3.15	3.150	released
1	17.95	-0-	2.49	2.490	released
1	18.11	-0-	2.68	2.680	released
1	18.31	-0-	3.50	3.500	released
1	18.50	-0-	2.95	2.950	released
1	19.37	-0-	4.14	4.140	released

Total Number: 15 Number/hr: 15.5 Wt:37.16 Wt/hr:38.309

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.65	-0-	0.28	0.280	released
1	10.43	-0-	1.35	1.350	released
1	11.81	-0-	0.51	0.510	released
1	12.24	-0-	0.62	0.620	released
1	12.32	-0-	0.54	0.540	released
1	12.99	-0-	0.65	0.650	released
1	16.22	-0-	1.22	1.220	released
1	17.24	-0-	2.17	2.170	released

Total Number: 8 Number/hr: 8.2 Wt: 7.34 Wt/hr: 7.567

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.97	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.0 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.86	-0-	0.90	0.900	released
1	26.77	-0-	9.00	9.000	released

Total Number: 2 Number/hr: 2.1 Wt: 9.90 Wt/hr:10.206

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.00	-0-	0.03	0.030	released
1	7.20	-0-	0.15	0.150	released
1	7.40	-0-	0.17	0.170	released
1	7.60	-0-	0.20	0.200	released
1	12.05	-0-	0.80	0.800	released

Total Number: 5 Number/hr: 5.2 Wt: 1.35 Wt/hr: 1.392

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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46	2.48	3.19	0.46	0.010	released
17	3.19	3.94	0.28	0.016	released
1	6.50	-0-	0.08	0.080	released

Total Number: 64 Number/hr: 66.0 Wt: 0.82 Wt/hr: 0.845

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.41	-0-	0.45	0.450	released
1	11.69	-0-	0.88	0.880	released
1	12.83	-0-	1.24	1.240	released
1	17.13	-0-	2.95	2.950	released

Total Number: 4 Number/hr: 4.1 Wt: 5.52 Wt/hr: 5.691

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.34	-0-	0.09	0.090	released
1	10.43	-0-	0.56	0.560	released
1	13.46	-0-	1.16	1.160	released
1	14.29	-0-	1.49	1.490	released

Total Number: 4 Number/hr: 4.1 Wt: 3.30 Wt/hr: 3.402

Total for 1990-24 Number:127 Number/hr:130.93 Wt:73.9 Wt/hr:76.16

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-25 Mortland Island
River mile 18.3 to 18.8 Collection date: 09/27/90 Run = 1.00 hrs

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.65	-0-	0.51	0.510	released

Total Number: 1 Number/hr: 1.0 Wt: 0.51 Wt/hr: 0.510

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
3	1.50	1.97	-0-	-0-	released
1	3.46	-0-	0.02	0.020	released
1	4.33	-0-	0.05	0.050	released
1	5.59	-0-	0.13	0.130	released

Total Number: 6 Number/hr: 6.0 Wt: 0.20 Wt/hr: 0.200

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	12.13	-0-	0.85	0.850	released
1	13.58	-0-	1.11	1.110	released
1	14.92	-0-	1.50	1.500	released
1	16.06	-0-	2.02	2.020	released
1	16.18	-0-	1.87	1.870	released
1	16.22	-0-	1.88	1.880	released
1	16.26	-0-	2.14	2.140	released
1	16.30	-0-	2.19	2.190	released
1	16.30	-0-	2.05	2.050	released
1	16.34	-0-	2.22	2.220	released
1	16.85	-0-	2.43	2.430	released
1	17.60	-0-	2.52	2.520	released
1	17.64	-0-	2.61	2.610	released
1	17.80	-0-	2.81	2.810	released
1	17.80	-0-	3.06	3.060	released
1	17.80	-0-	2.40	2.400	released
1	17.83	-0-	2.71	2.710	released
1	18.90	-0-	3.00	3.000	released
1	19.09	-0-	3.56	3.560	released
1	21.06	-0-	4.23	4.230	released

Total Number: 20 Number/hr: 20.0 Wt: 47.16 Wt/hr: 47.160

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

1	9.57	-0-	0.26	0.260	released
1	11.34	-0-	0.42	0.420	released
1	12.40	-0-	0.55	0.550	released
1	12.44	-0-	0.54	0.540	released
1	12.52	-0-	0.53	0.530	released
1	12.60	-0-	0.57	0.570	released
1	12.60	-0-	0.58	0.580	released
1	12.76	-0-	0.62	0.620	released
1	12.91	-0-	0.67	0.670	released
1	12.99	-0-	0.67	0.670	released
1	13.39	-0-	0.76	0.760	released
1	13.46	-0-	0.73	0.730	released
1	13.58	-0-	0.75	0.750	released
1	13.78	-0-	0.83	0.830	released
1	14.80	-0-	1.02	1.020	released
1	15.35	-0-	1.21	1.210	released
1	16.22	-0-	1.30	1.300	released
1	16.73	-0-	1.74	1.740	released

Total Number: 18 Number/hr: 18.0 Wt:13.75 Wt/hr:13.750

Notropis atherinoides
emerald shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	2.01	2.20	-0-	-0-	preserved
1	2.09	-0-	-0-	-0-	released

Total Number: 3 Number/hr: 3.0 Wt: 0.00 Wt/hr: 0.000

Pylodictis olivaris
flathead catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.35	-0-	0.19	0.190	released

Total Number: 1 Number/hr: 1.0 Wt: 0.19 Wt/hr: 0.190

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	3.31	3.74	0.03	0.015	released
3	4.21	4.72	0.08	0.027	released
1	9.76	-0-	0.46	0.460	released
1	11.18	-0-	0.70	0.700	released

Total Number: 7 Number/hr: 7.0 Wt: 1.27 Wt/hr: 1.270

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
4	3.31	4.02	0.06	0.015	released
6	5.47	6.97	0.55	0.092	released
2	7.24	8.07	0.31	0.155	released

Total Number: 12 Number/hr: 12.0 Wt: 0.92 Wt/hr: 0.920

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.83	-0-	-0-	-0-	released
1	7.28	-0-	0.20	0.200	released

Total Number: 2 Number/hr: 2.0 Wt: 0.20 Wt/hr: 0.200

Hybopsis storeriana
silver chub

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	2.32	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.0 Wt: 0.00 Wt/hr: 0.000

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	3.19	3.43	-0-	-0-	preserved
2	3.27	3.46	0.01	0.005	released

Total Number: 4 Number/hr: 4.0 Wt: 0.01 Wt/hr: 0.010

Carpiodes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.62	-0-	0.34	0.340	released

Total Number: 1 Number/hr: 1.0 Wt: 0.34 Wt/hr: 0.340

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
2	3.54	4.06	0.04	0.020	released
1	12.40	-0-	0.86	0.860	released
1	12.76	-0-	0.97	0.970	released
1	12.83	-0-	1.07	1.070	released

Total Number: 5 Number/hr: 5.0 Wt: 2.94 Wt/hr: 2.940

Total for 1990-25 Number: 81 Number/hr: 81.00 Wt: 67.5 Wt/hr: 67.49

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-26 Brickhouse Slough
River mile -0- to -0- Collection date: 09/28/90 Run = 1.00 hrs

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.91	-0-	0.32	0.320	released
1	9.21	-0-	0.46	0.460	released
1	9.76	-0-	0.52	0.520	released
1	10.12	-0-	0.66	0.660	released
1	10.20	-0-	0.74	0.740	released
1	10.43	-0-	0.72	0.720	released

Total Number: 6 Number/hr: 6.0 Wt: 3.42 Wt/hr: 3.420

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.57	-0-	0.49	0.490	released
1	10.04	-0-	0.58	0.580	released
1	13.98	-0-	1.30	1.300	released
1	14.37	-0-	1.73	1.730	released
1	14.45	-0-	1.45	1.450	released
1	17.72	-0-	3.05	3.050	released
1	17.91	-0-	2.61	2.610	released
1	18.31	-0-	2.75	2.750	released
1	18.43	-0-	2.90	2.900	released
1	18.54	-0-	3.12	3.120	released
1	22.44	-0-	5.00	5.000	released

Total Number: 11 Number/hr: 11.0 Wt: 24.98 Wt/hr: 24.980

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.07	-0-	0.17	0.170	released
1	8.86	-0-	0.18	0.180	released
1	9.25	-0-	0.24	0.240	released
1	9.92	-0-	0.27	0.270	released
1	12.28	-0-	0.55	0.550	released
1	12.99	-0-	0.61	0.610	released
1	16.54	-0-	1.10	1.100	released
1	19.88	-0-	2.65	2.650	released

Total Number: 8 Number/hr: 8.0 Wt: 5.77 Wt/hr: 5.770

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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1	12.48	-0-	0.88	0.880	released
1	16.18	-0-	2.18	2.180	released

Total Number: 2 Number/hr: 2.0 Wt: 3.06 Wt/hr: 3.060

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
11	2.60	2.95	0.11	0.010	released
44	2.72	3.23	0.60	0.014	released
23	2.76	3.50	0.30	0.013	released
96	2.99	3.66	1.50	0.016	released
94	3.23	3.94	1.52	0.016	released
14	3.39	3.74	0.23	0.016	released
31	3.54	3.94	0.64	0.021	released
14	3.58	4.09	0.25	0.018	released
7	3.70	4.37	0.14	0.020	released
37	3.74	4.76	0.92	0.025	released
21	4.02	5.67	0.65	0.031	released
7	4.09	4.88	0.21	0.030	released
2	5.51	5.51	0.12	0.060	released
1	6.10	-0-	0.05	0.050	released
3	6.85	7.48	0.40	0.133	released
1	6.97	-0-	0.10	0.100	released
2	9.21	9.53	0.58	0.290	released

Total Number: 408 Number/hr: 408.0 Wt: 8.32 Wt/hr: 8.320

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.95	-0-	0.27	0.270	released
1	11.02	-0-	0.63	0.630	released
1	11.30	-0-	0.82	0.820	released
1	12.09	-0-	0.98	0.980	released
1	13.54	-0-	1.35	1.350	released
1	14.37	-0-	1.56	1.560	released

Total Number: 6 Number/hr: 6.0 Wt: 5.61 Wt/hr: 5.610

Notropis hudsonius
spotail shiner

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.34	-0-	-0-	-0-	released

Total Number: 1 Number/hr: 1.0 Wt: 0.00 Wt/hr: 0.000

Carpiodes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.92	-0-	0.50	0.500	released
1	9.96	-0-	0.46	0.460	released

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Total Number: 2 Number/hr: 2.0 Wt: 0.96 Wt/hr: 0.960

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.71	-0-	0.12	0.120	released
1	6.69	-0-	0.11	0.110	released

Total Number: 2 Number/hr: 2.0 Wt: 0.23 Wt/hr: 0.230

Pomoxis annularis
white crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	9.45	-0-	0.46	0.460	released
1	9.69	-0-	0.51	0.510	released
1	10.24	-0-	0.65	0.650	released
1	10.63	-0-	0.66	0.660	released
1	10.87	-0-	0.68	0.680	released
1	10.94	-0-	0.75	0.750	released
1	10.98	-0-	0.78	0.780	released
1	11.26	-0-	0.80	0.800	released
1	11.73	-0-	0.83	0.830	released
1	11.77	-0-	0.91	0.910	released
1	12.80	-0-	1.31	1.310	released

Total Number: 11 Number/hr: 11.0 Wt: 8.34 Wt/hr: 8.340

Total for 1990-26 Number:457 Number/hr:457.00 Wt:60.7 Wt/hr:60.69

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1990 Electrofishing Summary
Lengths in inches and weights in pounds

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Collection 1990-27 Dark Chute
River mile 24.4 to 25.5

Collection date: 09/28/90 Run = 1.04 hrs

Ictiobus cyprinellus
bigmouth buffalo

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	15.83	-0-	2.22	2.220	released
1	16.14	-0-	2.40	2.400	released
1	16.73	-0-	2.73	2.730	released
1	17.64	-0-	3.14	3.140	released
1	19.09	-0-	4.02	4.020	released

Total Number: 5 Number/hr: 4.8 Wt:14.51 Wt/hr:13.952

Pomoxis nigromaculatus
black crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.73	-0-	0.17	0.170	released
1	7.52	-0-	0.20	0.200	released
1	7.52	-0-	0.25	0.250	released
1	8.19	-0-	0.26	0.260	released
1	9.06	-0-	0.48	0.480	released
1	11.02	-0-	0.76	0.760	released
1	11.54	-0-	0.87	0.870	released

Total Number: 7 Number/hr: 6.7 Wt: 2.99 Wt/hr: 2.875

Lepomis macrochirus
bluegill

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	1.54	-0-	-0-	-0-	released
6	1.69	2.17	0.02	0.003	released
4	2.68	3.43	0.09	0.023	released
5	4.06	4.33	0.23	0.046	released
2	4.92	4.96	0.16	0.080	released
2	5.08	5.75	0.23	0.115	released
2	5.98	7.09	0.42	0.210	released

Total Number: 22 Number/hr: 21.2 Wt: 1.15 Wt/hr: 1.106

Cyprinus carpio
carp

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	14.61	-0-	1.40	1.400	released
1	14.72	-0-	1.40	1.400	released
1	15.24	-0-	1.76	1.760	released
1	15.24	-0-	2.58	2.580	released
1	15.91	-0-	2.05	2.050	released
1	15.91	-0-	1.78	1.780	released

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Lengths in inches and weights in pounds

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1	16.61	-0-	2.13	2.130	released
1	16.65	-0-	2.30	2.300	released
1	16.65	-0-	1.90	1.900	released
1	16.93	-0-	2.21	2.210	released
1	17.01	-0-	2.14	2.140	released
1	17.13	-0-	2.60	2.600	released
1	17.17	-0-	2.21	2.210	released
1	17.17	-0-	2.54	2.540	released
1	17.52	-0-	2.46	2.460	released
1	17.60	-0-	2.56	2.560	released
1	18.07	-0-	2.98	2.980	released
1	18.27	-0-	2.65	2.650	released
1	19.37	-0-	3.72	3.720	released

Total Number: 19 Number/hr: 18.3 Wt:43.37 Wt/hr:41.702

Ictalurus punctatus
channel catfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.93	-0-	0.54	0.540	released
1	12.76	-0-	0.64	0.640	released
1	12.80	-0-	0.84	0.840	released
1	13.31	-0-	0.68	0.680	released
1	13.43	-0-	0.77	0.770	released
1	14.33	-0-	0.90	0.900	released
1	14.45	-0-	0.97	0.970	released
1	15.31	-0-	1.07	1.070	released
1	17.32	-0-	1.67	1.670	released
1	19.13	-0-	2.80	2.800	released

Total Number: 10 Number/hr: 9.6 Wt:10.88 Wt/hr:10.462

Aplodinotus grunniens
freshwater drum

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.74	-0-	0.02	0.020	released
2	7.28	7.36	0.33	0.165	released
1	8.46	-0-	0.23	0.230	released

Total Number: 4 Number/hr: 3.8 Wt: 0.58 Wt/hr: 0.558

Lepomis cyanellus
green sunfish

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.73	-0-	0.17	0.170	released

Total Number: 1 Number/hr: 1.0 Wt: 0.17 Wt/hr: 0.163

Dorosoma cepedianum
gizzard shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	3.39	-0-	-0-	-0-	released
1	4.80	-0-	0.02	0.020	released

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Lengths in inches and weights in pounds

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1	6.93	-0-	0.09	0.090	released
1	7.87	-0-	0.17	0.170	released
1	9.84	-0-	0.36	0.360	released
1	10.16	-0-	0.32	0.320	released

Total Number: 6 Number/hr: 5.8 Wt: 0.96 Wt/hr: 0.923

Micropterus salmoides
largemouth bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	5.67	-0-	0.05	0.050	released
1	8.54	-0-	0.31	0.310	released
1	10.63	-0-	0.54	0.540	released
14	11.50	-0-	0.87	0.062	released
1	11.65	-0-	0.86	0.860	released
1	11.97	-0-	1.00	1.000	released
1	12.83	-0-	1.07	1.070	released
1	14.96	-0-	1.85	1.850	released
1	15.00	-0-	1.81	1.810	released
1	15.39	-0-	2.34	2.340	released
1	15.47	-0-	1.95	1.950	released
1	16.54	-0-	2.68	2.680	released
1	16.81	-0-	2.95	2.950	released
1	16.85	-0-	2.52	2.520	released

Total Number: 27 Number/hr: 26.0 Wt: 20.80 Wt/hr: 20.000

Hiodon tergisus
mooneye

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	10.47	-0-	0.34	0.340	preserved

Total Number: 1 Number/hr: 1.0 Wt: 0.34 Wt/hr: 0.327

Stizostedion canadense
sauger

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	13.98	-0-	8.80	8.800	released

Total Number: 1 Number/hr: 1.0 Wt: 8.80 Wt/hr: 8.462

Moxostoma macrolepidotum
shorthead redhorse

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	8.11	-0-	0.19	0.190	released

Total Number: 1 Number/hr: 1.0 Wt: 0.19 Wt/hr: 0.183

Dorosoma petenense
threadfin shad

Number	Length	Range	Total Weight	Mean Weight	Disposition
6	2.95	3.78	0.10	0.017	preserved

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Total Number: 6 Number/hr: 5.8 Wt: 0.10 Wt/hr: 0.096

Carpododes cyprinus
quillback

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	11.65	-0-	0.75	0.750	released

Total Number: 1 Number/hr: 1.0 Wt: 0.75 Wt/hr: 0.721

Morone chrysops
white bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	4.88	-0-	0.04	0.040	released
1	11.65	-0-	0.79	0.790	released
1	11.89	-0-	0.91	0.910	released
1	12.01	-0-	0.81	0.810	released
1	12.95	-0-	1.08	1.080	released
1	13.27	-0-	1.14	1.140	released
1	14.25	-0-	1.52	1.520	released
1	14.80	-0-	1.67	1.670	released

Total Number: 8 Number/hr: 7.7 Wt: 7.96 Wt/hr: 7.654

Pomoxis annularis
white crappie

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	6.93	-0-	0.15	0.150	released
1	10.75	-0-	0.73	0.730	released

Total Number: 2 Number/hr: 1.9 Wt: 0.88 Wt/hr: 0.846

Morone mississippiensis
yellow bass

Number	Length	Range	Total Weight	Mean Weight	Disposition
1	7.36	-0-	0.24	0.240	released

Total Number: 1 Number/hr: 1.0 Wt: 0.24 Wt/hr: 0.231

Total for 1990-27 Number:122 Number/hr:117.31 Wt: 1E2 Wt/hr:1.1E2
